Reynolds School District #7
2015 Bond Projects

REQUEST FOR PROPOSALS
Construction Manager/General Contractor (CM/GC) Services
New Fairview Replacement Elementary School

July 1, 2016

TABLE OF CONTENTS

1. SCOPE OF WORK

Based upon the adoption of new contracting rules for CM/GC dated 7/1/2014: 279C.337 Procurement of constructions manager/general contractor services. (1) A contracting agency that intends to procure construction manager/general contractor services shall procure the construction manager/general contractor services in accordance with model rules the Attorney General adopts under ORS 279A.065 (3). and (h) The contracting agency will conduct the procurement in accordance with model rules the Attorney General adopts under ORS 279A.065 (3).

1.1 General: Overview & Project Background

Reynolds School District invites written sealed Proposals for Construction Manager/General Contractor, (CM/GC), services for the 2015 Capital Projects GO Bond that was recently passed on May 19th by Reynolds School District constituents.

Reynolds School District serves 11,722 students in 18 schools.

After a two-year facilities study, the facilities master plan was adopted in October 2014. A community task force then prioritized the projects. The bond measure would pay for $125 million of the projects. The tax rate is estimated to be the same as the 2014 tax rate.

The District plans to replace three of its oldest schools on their current properties. Fairview and Troutdale elementary schools are 88 years old and Wilkes is 101 years old. According to the facilities study, the high school is over student Capacity by 750 students. Proceeds from the bond would add classroom space, renovate science labs, and make technology and security improvements at all schools.

Specifically, this bond measure allows the District to pay for capital construction and improvements to schools:

- Constructing, furnishing and equipping new elementary school buildings on their present sites of Fairview, Troutdale and Wilkes, including demolition and related site improvements.
- Construction, renovation, furnishing and equipping Reynolds High School including but not limited to new classrooms, modernization of science classrooms and labs, student common areas and related site improvements.
- Improvements to all schools through renovation, construction and equipment to create safe and secure vestibule entry ways and related site improvements.

The District has established a citizen oversight committee to ensure bond proceeds are only used for purposes indicated.

The proposer must be qualified and prepared to provide services to the District in the school site listed below (which constitute the “Project”).

Sitework and building design at existing school sites including the reclamation of demolished extant building locations repurposed for athletic, recreational and landscaped areas for:

• **FAIRVIEW ELEMENTARY**
Current Capacity: 515
New Capacity: 570

The District will issue five separate Requests for Proposals (RFP) for CM/GC services for the Bond funded Capital Projects mentioned above. Proposers may propose on any solicitation or all. If a proposer should choose to submit a proposal for all of the Capital Projects they shall do so in five separate and distinct Proposals which will be evaluated separately. The selection of the winning proposer for the any of the portions of the Bond work does not provide an advantage or exclusion from being selected for the other projects that will request proposals.

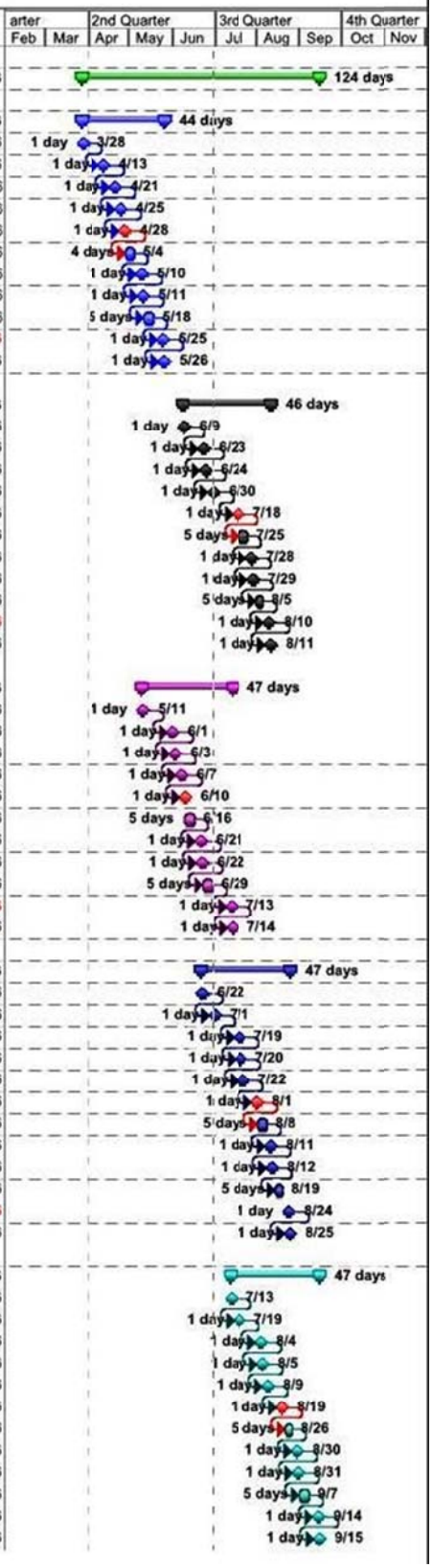
The District reserves the right to determine what is in the best interest of the District and the completion of the Bond Projects when choosing the CM/GC. However, it will be incumbent on the proposer proposing, to demonstrate that they will have the capabilities to meet the deliverables scheduled for all projects on which they propose. Proposals must address in detail the proposer's verifiable approach to providing the manpower and resources to deliver the services necessary to attain the Districts goal.

The selection of a particular Contracting firm or firms for any or all of the Projects listed above will be at the sole discretion of the Reynolds School District as it determines which firm/firms will serve the Reynolds School District in its best interest, and will provide the most benefit to its 2015 Bond Projects.

The present schedule for the solicitation of CM/GC services has been sequenced in an effort to prevent the individual projects from completing with one another for proposing firms, and provide the best possible market conditions for the projects. It will be necessary that the same type of sequencing be used to prevent the competition between the individual projects, and to provide the best possible market for the scheduled start dates for the bidding and construction phases for each of the Projects. Regardless, of the selected proposer for each of the projects, it will be the CM/GC's responsibility on each project to provide coordination and cooperation with any of the other CM/GC's selected to provide the best possible results for all the projects and the School District. The Schedule attached for the above described project is as follows on the next Page:

Reynolds School District 2015 Bond CM/GC Selection Schedule

ID	Task Name	Duration	Start	Finish
1				
2	**CM/GC Selection Process**	**124 days**	**Mon 3/28/16**	**Thu 9/15/16**
3				
4	**CM/GC Selection Process of Reynolds Secure Vestibules District Wide**	**44 days**	**Mon 3/28/16**	**Thu 5/26/16**
5	Issue CM/GC RFP for Reynolds Secure Vestibules District Wide	1 day	Mon 3/28/16	Mon 3/28/16
6	Mandatory pre-proposal Meeting	1 day	Wed 4/13/16	Wed 4/13/16
7	Deadline for Question	1 day	Thu 4/21/16	Thu 4/21/16
8	RFP Addenda Issuance	1 day	Mon 4/25/16	Mon 4/25/16
9	**CM/GC Proposal Due for Reynolds Security Vestibules District Wide**	1 day	Thu 4/28/16	Thu 4/28/16
10	Shortlist Firms Identified	4 days	Fri 4/29/16	Wed 5/4/16
11	Proposer Interviews	1 day	Tue 5/10/16	Tue 5/10/16
12	Notice of Intent to Award	1 day	Wed 5/11/16	Wed 5/11/16
13	Protest period & Contract Negotiations	5 days	Thu 5/12/16	Wed 5/18/16
14	Board Approval of Selection of CM/GC for Secure Vestibules	1 day	Wed 5/25/16	Wed 5/25/16
15	Begin Phase I CM/GC Services	1 day	Thu 5/26/16	Thu 5/26/16
16				
17	**CM/GC Selection Process of Reynolds High School Renovation**	**46 days**	**Thu 6/9/16**	**Thu 8/11/16**
18	Issue CM/GC RFP for Reynolds High School Renovation	1 day	Thu 6/9/16	Thu 6/9/16
19	Mandatory pre-proposal Meeting	1 day	Thu 6/23/16	Thu 6/23/16
20	Deadline for Question	1 day	Fri 6/24/16	Fri 6/24/16
21	RFP Addenda Issuance	1 day	Thu 6/30/16	Thu 6/30/16
22	**CM/GC Proposal Due for Reynolds High School Renovation**	1 day	Mon 7/18/16	Mon 7/18/16
23	Shortlist Firms Identified	5 days	Tue 7/19/16	Mon 7/25/16
24	Proposer Interviews	1 day	Thu 7/28/16	Thu 7/28/16
25	Notice of Intent to Award	1 day	Fri 7/29/16	Fri 7/29/16
26	Protest period & Contract Negotiations	5 days	Mon 8/1/16	Fri 8/5/16
27	Board Approval of Selection of CM/GC for Reynolds HS	1 day	Wed 8/10/16	Wed 8/10/16
28	Begin Phase I CM/GC Services	1 day	Thu 8/11/16	Thu 8/11/16
29				
30	**CM/GC Selection Process Wilkes Replacement Elementary School**	**47 days**	**Wed 5/11/16**	**Thu 7/14/16**
31	Issue CM/GC RFP for Wilkes Replacement Elementary School	1 day	Wed 5/11/16	Wed 5/11/16
32	Mandatory pre-proposal Meeting	1 day	Wed 6/1/16	Wed 6/1/16
33	Deadline for Question	1 day	Fri 6/3/16	Fri 6/3/16
34	RFP Addenda Issuance	1 day	Tue 6/7/16	Tue 6/7/16
35	**CM/GC Proposal Due for Wilkes Replacement Elementary School**	1 day	Fri 6/10/16	Fri 6/10/16
36	Shortlist Firms Identified	5 days	Fri 6/10/16	Thu 6/16/16
37	Proposer Interviews	1 day	Tue 6/21/16	Tue 6/21/16
38	Notice of Intent to Award	1 day	Wed 6/22/16	Wed 6/22/16
39	Protest period & Contract Negotiations	5 days	Thu 6/23/16	Wed 6/29/16
40	Board Approval of Selection of CM/GC for Wilkes Elementary School	1 day	Wed 7/13/16	Wed 7/13/16
41	Begin Phase I CM/GC Services	1 day	Thu 7/14/16	Thu 7/14/16
42				
43	**CM/GC Selection Process Fairview Replacement Elementary School**	**47 days**	**Wed 6/22/16**	**Thu 8/25/16**
44	Request use of Alternative Method from Reynolds School Board	1 day	Wed 6/22/16	Wed 6/22/16
45	Issue CM/GC RFP for Fairview Replacement Elementary School	1 day	Fri 7/1/16	Fri 7/1/16
46	Mandatory pre-proposal Meeting	1 day	Tue 7/19/16	Tue 7/19/16
47	Deadline for Question	1 day	Wed 7/20/16	Wed 7/20/16
48	RFP Addenda Issuance	1 day	Fri 7/22/16	Fri 7/22/16
49	**CM/GC Proposal Due for FairviewReplacement Elementary School**	1 day	Mon 8/1/16	Mon 8/1/16
50	Shortlist Firms Identified	5 days	Tue 8/2/16	Mon 8/8/16
51	Proposer Interviews	1 day	Thu 8/11/16	Thu 8/11/16
52	Notice of Intent to Award	1 day	Fri 8/12/16	Fri 8/12/16
53	Protest period & Contract Negotiations	5 days	Mon 8/15/16	Fri 8/19/16
54	Board Approval of Selection of CM/GC for Fairview Elementary School	1 day	Wed 8/24/16	Wed 8/24/16
55	Begin Phase I CM/GC Services	1 day	Thu 8/25/16	Thu 8/25/16
56				
57	**CM/GC Selection Process Troutdale Replacement Elementary School**	**47 days**	**Wed 7/13/16**	**Thu 9/15/16**
58	Request use of Alternative Method from Reynolds School Board	1 day	Wed 7/13/16	Wed 7/13/16
59	Issue CM/GC RFP for Troutdale Replacement Elementary School	1 day	Tue 7/19/16	Tue 7/19/16
60	Mandatory pre-proposal Meeting	1 day	Thu 8/4/16	Thu 8/4/16
61	Deadline for Question	1 day	Fri 8/5/16	Fri 8/5/16
62	RFP Addenda Issuance	1 day	Tue 8/9/16	Tue 8/9/16
63	**CM/GC Proposal Due for Troutdale Replacement Elementary Schoo**	1 day	Fri 8/19/16	Fri 8/19/16
64	Shortlist Firms Identified	5 days	Mon 8/22/16	Fri 8/26/16
65	Proposer Interviews	1 day	Tue 8/30/16	Tue 8/30/16
66	Notice of Intent to Award	1 day	Wed 8/31/16	Wed 8/31/16
67	Protest period & Contract Negotiations	5 days	Thu 9/1/16	Wed 9/7/16
68	Board Approval of Selection of CM/GC for Troutdale Elementary Schoo	1 day	Wed 9/14/16	Wed 9/14/16
69	Begin Phase I CM/GC Services	1 day	Thu 9/15/16	Thu 9/15/16



The Reynolds School District is soliciting Requests for Proposals (RFPs) from experienced Construction Manager/General Contractor (CM/GC) capable of completing the replacement of Fairview Elementary Schools. The CM/GC is being selected early in the project to best serve the Reynolds School District's project in consideration of the following factors:

1. Provide the Reynolds School District and its design team with unique expertise and experience that will assist to select the most economical and timely construction solutions;

2. Ensure that existing operations of the Reynolds School District are maintained throughout construction with minimal disruption to ongoing operations of adjacent facilities

3. Implement procedures to aggressively manage the construction costs, schedule, and phasing requirements; and, minimize hazards related to the development of the site in and around wetland facilities.

4. Develop project procedures to manage the high risks and critical need for effective partnering and collaborative decision-making processes to ensure that jobsite safety is not compromised and that impacts on subcontractors are minimized, while performing significant work around a functioning Charter School and District Administration office.

5. The need for contractor expertise to develop means and methods strategies of work-around site logistics solutions to re-constructing the facility while maintaining other adjacent ongoing operations. Construction work will need to be carefully staged and coordinated to ensure safety of the public at all times.

6. Provide procurement and implementation strategies for complex phasing of the Project to leverage early bid package(s), while allowing time for additional design solutions for later bid packages and coordination of work activities in and around sensitive environmental conditions.

7. The Project's budget limitations and the need to identify cost-effective solutions through constructability reviews, value engineering and collaboration with stakeholders to meet budget constraints.

8. Recognize and support district Local and Diverse Community Engagement Program (CEP), (Part of Appendix A), with commitment to optimizing outcomes and vigorously achieving aspirational goals.

The Reynolds School District seeks a CM/GC who can best provide the services needed to achieve the above goals.

The services requested of the CM/GC shall be provided in two phases:

1 Preconstruction Services: Consultation with the School District and its design team during the planning and design of the project.
2 Construction Services: All final bidding, management and completion of the

construction work within the negotiated GMP (guaranteed maximum price) and project schedule.

1.2 Project Description

The preliminary project work scope, primary work elements, schematic drawings are described in Appendix A.

1.3 Project Organization

The School District has retained DAY CPM SERVICES LLC to provide Project Management oversight services on behalf of the Owner. An RFP solicitation to choose the most suited Design firms for the project 2015 Bond Projects has been completed. The District decided to award contracts for the for the design services to BLRB for the three elementary Schools, Wilkes, Troutdale, and Fairview along with the Secure Vestibules District wide to BLRB Architects. They decided to award the contract for design services to DOWA – BIB for the Reynolds High School Renovation and Additions.

1.4 Construction Budget

The School District has budgeted $22.7 million for the total construction budget of the replacement of Fairview Elementary School. The construction budget includes, but it not limited to; building costs, on-site, off-site improvements, required solar applications of 1 ½%, any escalation, and a construction contingency. This will be the basis of the Guaranteed Maximum Price, GMP. All savings to the GMP will revert back to the District.

1.5 Construction Schedule

For purposes of funding the project to its maximum potential, at the time of this Request of Proposals, it is the goal of the District that all, (or at least 85%) of the projects be substantially complete prior to the beginning of the fall term of 2018. It will be important for any firm proposing to understand this schedule should be attainable, and that it is very important for the District taking full advantage of funding available.

The Draft Master Schedule, Appendix D, shows the sequencing of each of the projects of the 2015 Bond, and although concentrates mainly on these activities necessary prior to the execution of the Phase II Services it does provide the basic activities and required sequences for the Phase II Services. It should be understood that Early Work Amendments, (EWAs), and the amount of EWAs will be determined by the CM/GC and the team and added as necessary. However, the sequence of the start of the Phase II Services will not be altered unless determined to be in the best interest of the District, and will not compromise the due diligence of the CM/GC during the Phase I Services.

The activities are similar for the design and preconstruction phase for each of the 2015 Bond Projects. The Project Schedule for Fairview Replacement Elementary School starts at the top of page 5, and extends to the top of page 6.

1.6 Mandatory Pre-Proposal briefing and Site Tour

A MANDATORY pre-proposal meeting will be held to answer questions from prospective proposers on ***July 19, 2016 at 10:00 AM*** prevailing local time at the **Fairview Community Center at 300 Harrison Street, Fairview, Oregon 97024**. The meeting will allow proposers the opportunity to gain information about the construction sites and a better understanding of the work, and the unique aspects of the project.

2. PROPOSAL PROCESS

2.1 General

2.1.1. Evaluation of Proposals

Proposals will be evaluated by an evaluation committee comprised of School District representatives, Owner representative DAY CPM SERVICES, members of the design team, and technically-oriented members-at-large. The evaluation will be in accordance with Section 5, Evaluation of Proposals, and may include requests by the team for additional information and interviews to determine and clarify the experience and responsibility of the proposer. The evaluation team will make a recommendation to the Reynolds School Board, who will make the final decision to select the CM/GC.

2.1.2 Obligation to Award

The issuance of this RFP, and the receipt and evaluation of proposals does not obligate the School District to award a contract. The School District will not pay any costs incurred in responding to this RFP. The School District may cancel this procurement without liability at any time prior to the School District's execution of a contract.

2.1.3 Commencement of Work

The successful proposer may commence work only after the School District delivers a fully executed preconstruction contract to that proposer.

2.1.4 Questions

Questions pertaining to this RFP shall be presented in writing via email to:

Bob Collins, Senior Project Manager
DAY CPM SERVICES (Owner Representative)
12745 SW Beaverdam Rd. Ste. #120
Beaverton, OR 97005
Email: rcollins@daycpm.com

Questions must be received in electronic format not later than 2:00 PM, July 21, 2016. Questions will be compiled and collectively addressed in writing prior to the deadline for receipt of proposals.

2.2 Pre-Proposal Interpretation of Contract Documents

2.2.1 Changes to RFP

2.2.1.1 The School District reserves the right to make changes to the RFP. Changes will be made by written addendum which will be issued to all prospective proposers on the School District's list of RFP holders who attended the mandatory pre-proposal meeting.

2.2.1.2 Prospective proposers may request or suggest any change to the RFP by submitting a written request. The request shall specify the provision of the RFP in question and contain an explanation for the requested change. The request must be submitted at least seven (7) calendar days prior to the date set for receipt of proposals.

2.2.1.3 The evaluation team will evaluate all requests submitted but will not be obligated to accept the requested change.

2.2.2 Amend or Withdraw Proposal

A proposer may amend or withdraw its proposal any time prior to the time and date established for submission of proposals.

2.3 Public Disclosure of Proposals

2.3.1 Any information provided to the School District pursuant to this RFP is subject to public disclosure pursuant to Oregon's public records laws (ORS 192.410 to 192.505).

2.3.2 The general requirement for public disclosure is subject to a number of exemptions. Each page containing information deemed by the proposer as necessary to remain exempt from public disclosure after proposals have been evaluated (e.g., pages containing trade secret, economic development information, etc.) should be plainly marked. Marked pages should be placed in a group separate from the remainder of the proposal.

2.3.3 The fact that a proposer marks and segregates certain information as exempt from disclosure does not mean that the information is necessarily exempt. The School District will make an independent determination regarding exemptions applicable to information that has been properly marked and segregated. Information that has not been properly marked and segregated may be disclosed in response to a public records request. When exempt information is mixed with nonexempt information, the nonexempt information must be disclosed. The School District will redact pages that include both exempt and nonexempt information to allow disclosure of the nonexempt information.

2.3.4 Unless expressly provided otherwise in this RFP or in a separate communication, the School District does not agree to withhold from public disclosure any information submitted in confidence by a proposer unless the information is otherwise exempt under Oregon law. The School District considers proposals submitted in response to this

RFP to be submitted in confidence only until the School District's evaluation is complete, and agrees not to disclose proposals until the School District has completed its evaluation of all proposals and publicly announced the results.

2.4 Submission of Proposals

2.4.1 Requirements

Each proposer's submission in response to this RFP must:

2.4.1.1 Include one original (marked as such), 7 copies and one PDF copy on a USB flash drive;

2.4.1.2 Include the completed and executed Proposal form (Section 4 of this RFP) as the first page of the original submission and each copy;

2.4.1.3 Be submitted in a sealed envelope that is plainly marked "Proposal to Provide CM/GC Services – Reynolds School District: The New Fairview Replacement Elementary School" and bears the proposer's name, address, telephone number, and email address; and

2.4.1.4 Be delivered to the following addressee by **2:00 PM August 1, 2016**:

Reynolds School District
RE: RFP – Construction Manager/General Contractor Services
The New Fairview Replacement Elementary School
1204 NE 201st Avenue
Fairview, OR 97024

The School District, at its option, may decline to consider late submissions.

2.5 Schedule: Refer to Appendix D for information related to the Master Schedule for the project

2.5.1 Milestones

Projected significant milestones for this procurement are as follows:

RFP issue date	July 1, 2016
Mandatory pre-proposal meeting at 10:00 AM	July 19, 2016
Deadline for proposer questions	July 21, 2016
RFP Addenda issuance	July 22, 2016
Proposals due at 2:00 PM	**August 1, 2016**
Shortlisted firms identified	August 5, 2016
Proposer interviews	August 9, 2016
Notice of Intent to Award	August 10, 2016
End of Protest Period	August 17, 2016
Board approval of Selection	August 24, 2016
Beginning of services	August 25, 2016

2.5.2 Period of Irrevocability

Proposals shall be offers that are irrevocable for a period of sixty (60) calendar days after the time and date proposals are due. Proposals shall contain the name, address and telephone number of an individual or individuals with authority to bind the company during the period in which the proposal will be evaluated.

2.6 Objections or Protests

2.6.1 Process

A proposer or prospective proposer who wishes to object or protest any aspect of this procurement shall comply with requirements of Oregon Administrative Rule: OAR 137-049-0260 and must deliver a written protest to:

Reynolds School District
RE: RFP – Construction Manager/General Contractor Services
The New Fairview Replacement Elementary School
1204 NE 201st Avenue
Fairview, OR 97024

A protest is delivered when it is actually received by the aforementioned addressee.

A protest shall be deemed to include only the documents timely delivered pursuant to this paragraph. It must clearly state all of the grounds for the protest and must include all arguments and evidence in support of the protest. Testimonial evidence may be submitted by affidavit. The School District may investigate as it deems appropriate in reviewing the protest and will issue a written response to the protest. The School District may proceed with contract award, execution, and performance while a protest is pending.

The time period during which the contracting agency will meet with proposers that the contracting agency did not select for the public improvement contract, if a proposer requests a meeting to discuss the procurement.

2.6.2 Timeliness

2.6.2.1 If the protest relates to matters that are apparent on the face of the solicitation documents or that are otherwise known or should have been known to the protester, the protest must be delivered no later than (10) calendar days prior to the deadline for the School District's receipt of proposals.

2.6.2.2 If the protest relates to other matters, including but not limited to the award of the contract, it must be delivered as soon as possible, and in no event later than seven (7) calendar days, after the protester knows or reasonably should have known of the award of the contract, the School District's intent to award the contract, or other matters to which the protest is addressed.

2.6.2.3 The School District may decline to review a late protest.

2.7 General Services Overview CM/GC SCOPE OF CM/GC SERVICES

The Reynolds School District is seeking a CM/GC firm to participate in schematic design, design development and construction document development phases as a member of a team with the Program & Project Manager-PM (DAY CPM Services), Architect and Engineering team, and other Project consultants, and agencies to provide preconstruction services and to manage and coordinate the subcontractor bidding procurement and the construction process.

During preconstruction, the CM/GC shall actively participate as a member of the Project team with the Owner and the Architect during the Schematic Design, Design Development and Construction Documents Phases prior to construction. The CM/GC shall be responsible for providing necessary consulting expertise to the Owner to ensure that the program scope is maximized and the construction budget and the Project schedule are met.

The CM/GC will work collaboratively and proactively with the Owner and Architect to proceed with planning, design and development of the work in a manner which supports the Owner's efforts to keep costs within the Owner's budget. The CM/GC shall provide Construction Management (CM) services throughout the Project, from the preconstruction period through construction and shall closely coordinate such work with the Owner, PM and Architect. The CM/GC's CM services shall include but not be limited to:

1) Assistance in identifying safe work practices and requirements for construction;
2) Assessing and recommending site logistics requirements;
3) Recommending phasing, sequencing of work and construction scheduling;
4) Providing cost-estimating including GMP development and subcontractor procurement
5) Determining and reconciling constructability issues and performing formal constructability analysis reviews of the design documents prior to subcontract bidding;
6) Assessing alternative construction options for cost savings;
7) Identifying products for Value Engineering (VE) and engineering systems for life cycle cost, design considerations and recommending all work necessary to support their implementation and;
8) Participating in Owner's Schematic Design, Design Development and Construction Documents Phases coordination reviews.
9) Critical Path scheduling and site logistics planning,
10) Permit procurement assistance and agency coordination
11) Identifying opportunities for supporting district Local and Diverse Community Engagement Program (CEP).

The CM/GC shall provide full general contracting services for construction of the Project in accordance with the requirements of the Contract Documents and except to the extent work is specifically indicated in the Contract Documents to be the responsibility of others.

The CM/GC firm must be skilled in all aspects typical to a general contractor and construction manager, including, but not limited to developing Critical Path Method (CPM) schedules, preparing construction estimates, performing value engineering and life-cycle cost studies,

analyzing alternative designs, studying labor conditions, understanding construction methods and techniques, understanding local climate conditions and requirements for weather protection during construction, performing constructability reviews, sequencing of work, and coordinating and communicating the activities of the team throughout the design and construction phases to all members of the Project delivery team.

In addition, the CM/GC must be familiar with the local labor and diverse subcontracting market and be capable of working with subcontractors to generate tangible outcomes supporting district Local and Diverse Community Engagement Program (CEP) and viable pricing alternatives.

The CM/GC firm will coordinate and manage the construction process as a collaborative member of a team with the Owner, PM, A/E, and other Project consultants and governmental agencies. The CM/GC must also be familiar with sustainable construction techniques, LEED certification requirements and processes and employ those techniques and processes throughout the term of the Project.

2.7.1 Preconstruction Services

Preconstruction services will be provided generally under the terms contained in this RFP solicitation process, and paid for on a cost reimbursement basis. In general, services are anticipated to include a requirement that the CM/GC:

A. Provide a full description of items that make up the proposed GMP. A complete copy of the GMP estimates in a format approved by Owner, including all details, must be provided to the Owner. The CM/GC will cooperate with other Owner designated Consultants, and advise, assist, and provide recommendations to the Owner and design team on all aspects of the planning and design of the work.

B. Provide timely and accurate information, estimates, schemes, and participate in decisions regarding construction materials, methods, systems, phasing, and costs to assist in determinations which are aimed at providing the highest quality building within the budget and schedule.

C. Work with the Owner in identifying critical elements of the Work that may require special procurement processes, such as prequalification of bidders or qualifications- based selection.

D. Actively participate in formal Value Engineering studies anticipated to be held at the end of schematic design and design development. Actively participate in ongoing value engineering and constructability reviews to ensure the project budget and design standards are maintained.

E. Review in-progress design documents and provide timely input and advice on construction feasibility, and alternative materials, and availability. Provide formal and informal Constructability Reviews (CR) of the Contract Documents as part of the design development QA/QC process. Provide final CR review of 80% CD design documents and suggest modifications to improve completeness of the documents prior to establishing the final GMP

F. Provide input to the Owner and the design team regarding current construction market bidding climate, status of key subcontract markets, and other local economic and weather related conditions. Recommend division of work to facilitate bidding and award of trade contracts, considering such factors as bidding climate, weather, over- water time restrictions for deep water auger piling systems, improving or accelerating construction completion milestones, minimizing trade jurisdictional disputes, and related issues. Advise the Owner on subcontracting opportunities for local and minority/women/ESB firms.

G. Continuously monitor and update the Project schedule and recommend adjustments in the design documents of construction bid packaging to ensure completion of the Project in the most expeditious manner possible. Time is of the essence on this project with critical milestones for relocation of the school district's existing facilities.

H. Prepare construction cost estimates for the Project at appropriate times throughout the design phases of the work. Notify the Owner and design team immediately if their construction cost estimates appear to be exceeding the construction budget or the GMP.

I. Work with the Owner and design team to maximize energy efficiency in the Project. Provide estimating and value engineering support to the Owner's analysis and application for energy related incentive programs offered by local utilities.

J. Furnish a Guaranteed Maximum Price (GMP) in accordance with the CM/GC Agreement for the Owner's review and approval. It is also possible that a partial Early Work Amendment will be authorized to cover construction work in advance of the GMP.

K. In the event that the selected CM/GC is unable to furnish a GMP within the Owner's budget, or otherwise come to agreement on CM/GC Contract terms, the Owner retains the sole option to cancel this procurement and start a new process for the construction of the Project, or to terminate the existing CM/GC Contract or contract award and enter into new CM/CG Contract negotiations with the next highest rated Proposer under this procurement.

L. CM/GC will be required to comply and prepare agreeable responses to the following before a GMP is agreed upon: By the earlier of the date on which a contracting agency and a construction manager/general contractor agree on a fixed price, guaranteed maximum price or other maximum price or the date on which the construction manager/general contractor begins to solicit offers for construction services from subcontractors, the public improvement contract that the contracting agency negotiates with the construction manager/general contractor must:

    (a) Describe the methods the construction manager/general contractor will use to qualify and select subcontractors. The methods must be competitive and should provide prospective subcontractors with a reasonable opportunity to participate in the construction manager/general contractor's qualification and

selection process.

(b) Identify the portions of the construction work under the public improvement contract for which the construction manager/general contractor may waive the qualification and selection process described in paragraph (a) of this subsection and describe:

1. How the construction manager/general contractor may determine the portions of the construction work that will not be subject to the qualification and selection process described in paragraph (a) of this subsection; and
2. The process the construction manager/general contractor will use to qualify and select prospective subcontractors for the portions of the construction work that are not subject to the qualification and selection process described in paragraph (a) of this subsection.

(c) Identify the conditions under which the construction manager/general contractor or an affiliate or subsidiary of the construction manager/general contractor may perform or compete with other prospective subcontractors to perform construction work under the public improvement contract and describe the methods the construction manager/general contractor will use to qualify and select an affiliate or subsidiary to perform the construction work.

(d) Describe how the construction manager/general contractor will announce which prospective subcontractors the construction manager/general contractor has selected to perform construction services in connection with the public improvement contract.

(e) Describe the conditions under which the construction manager/general contractor will discuss the qualification and selection process described in this subsection with a prospective subcontractor that the construction manager/general contractor did not select for a subcontract if the construction manager/general contractor receives a request from the prospective subcontractor to discuss the process.

M. As used in this section, “savings” means a positive difference between a fixed price, a guaranteed maximum price or other maximum price set forth in a public improvement contract and the actual cost of the work, including costs for which a contracting agency reimburses a construction manager/general contractor and fees or profits the construction manager/general contractor earns. [2013 c.522 §3]

N. The District will not pay any amount that exceeds a fixed price, guaranteed maximum price or other maximum price specified in the public improvement contract unless the amount results from material changes to the scope of work set forth in the public improvement contract and the parties to the public improvement contract agree in writing to the material changes.

2.7.2 Construction Phase Services

After the agreement to an acceptable Guaranteed Maximum Price, (GMP), by the District, and the execution of an Amendment to CM/GC Contract the CM/GC will bid the remaining

components of the projects after any Early Work Amendments that have taken place. With the bid results the CM/GC will provide a complete reconciliation of the bid received to the GMP, and provide all information to the District for review and acceptance.

During the Construction Phase Services, the CM/GC shall provide and pay for all materials, tools, equipment, labor, and professional and non-professional services, and shall perform all other acts and supply all other things necessary to fully and properly perform and complete the Work, as required by the Contract Documents. Construction related activities of the CM/GC during this phase will include schedule refinement, phasing and site logistics, advance materials procurement, advance construction (if approved via an Early Work Amendment), development of bid packages, subcontractor bidding, quality control of the work in progress, and overall construction management. The CM/GC will also be responsible for ongoing management of the construction budget and monthly, or as requested by Owner, reporting of budget and work in progress status.

2.7.3 Special Requirements

In order to implement the CM/GC method of construction with a GMP, the Reynolds School District will impose some special requirements to ensure an adequate level of competition. Proposers shall note the following requirements concerning management of this GMP Project:

A. A full description of items that make up the proposed GMP is required from the CM/GC. A complete copy of the GMP estimates in a format approved by Owner, including all details, must be provided to the Owner. The CM/GC will cooperate with other Owner designated cost estimators to reconcile GMP estimates to Owner-approved limits.

B. The CM/GC shall comply with Oregon Administrative Rules ("OAR") 137-046-0200 and 137-046-0210 in all respects for the solicitation of Minority, Women and Emerging Small Business Enterprises. Compliance shall include pass-through requirements for subcontractor demonstrations of good faith efforts for all subcontract Offer packages, for which set goals shall not be utilized.

C. The Contract awarded through this process will require the CM/GC to use an open competitive selection process for subcontracted components of the Project. The processes used to award subcontracts by the CM/GC will be monitored by the Owner. The CM/GC shall solicit bids or quotes from subcontractors unless otherwise authorized by the Owner in writing. Owner will review all bids at its discretion, and reserves the right of prior written approval of any bids when fewer than three (3) bids are received in response to any solicitation.

D. By listing individuals in the Proposal, the firm affirms that these individuals will be available to work on the Project at the approximate percentages shown in the Proposal. The Owner reserves the right to approve or reject any changes to the proposed personnel. Owner further reserves the right to request a substitution of personnel if deemed to be in the best interest of the Owner.

E. All Proposers must be registered with the Oregon Construction Contractors Board prior to submitting Proposals. Failure to register will be sufficient cause to reject Proposals as non-responsive.

F. For this Project, the provisions of ORS 279C.800 to 279C.870, relative to prevailing wage rates, will apply. The CM/GC and all subcontractors shall comply with BOLI requirements. The actual prevailing wage rates applicable to this Project will be identified at the time the initial set of construction specifications are made available and are incorporated into the first Early Work Amendment, or, if no Early Work Amendment occurs, then at the time of the GMP Amendment. Those rates will then apply throughout the Project.

G. CM/GC firm may be asked to utilize web based tools for managing costs and other contractual duties via smartsheet.com and bluebeam. Logs will be used for controlling and managing changes to construction, GMP contingency management and closeout requirements utilizing cloud based logs.

H. In an effort to promote community engagement with local MWESB subcontractors and other stakeholders, the CM/GC will be expected to develop a strategy supporting district Local and Diverse Community Engagement Program (CEP) including consideration of target firms, Student / Career Technical Education (CTE), Workforce, Faculty/Staff, Social Responsibility & Sustainability, Mentor-Protégé and Partnerships to optimize benefit of project work for community.

I. CM/GC firm will provide all required Subcontracting as described in Article 11 of CM/GC Construction Agreement, Appendix B, for all the demolition and hazardous material remediation work for this project, and provide all the coordination and scheduling necessary.

J. CM/GC shall participate in conduct Pull Planning exercises during Preconstruction Phase with the District and the Design Team, and during the Construction Phase with the District, the Design Team, and Subcontractors of this project as defined, “the responsible team for delivering a project milestone plans together how that will happen. The planning conversation produces a plan for deliverables at each hand-off, a schedule for that hand-off and prepares the team for action together as the future unfolds. The plan is developed as a series of requests starting from the milestone and working back – the pull. This designs the network of commitments necessary to deliver the phase and establishes when the work should happen.

K. The Reynolds School District has hired ARC Document Solutions to provide document and information management services for all Reynolds School District Bond construction project. ARC Document Solutions will maintain one source of truth and all changes to the project will be updated expeditiously using project dashboards for each project.

Hyperlinking Services Include:

- Index listing to corresponding plans
- Callouts to corresponding plans and details (zoom-in optional)

- Text references linked to corresponding plans (zoom-in optional)
- Navigation Buttons/Panel with Arrows that link to Previous/Next plan in sequence
- Discrepancy Log - Logs missing documents and details to avoid costly issues
- Linking Schedules (Door, Window, Wall, etc.) to corresponding key items
- Project Dashboards for each Project
- Link Highlights on Callouts and Text References
- Revised Plans - Digital slip-sheeting to maintain a *most-current* set of documents
- Historical Set Buttons – Instant access to previous and current versions
- Document posting and linking of RFIs, ASIs, submittals and more
- RFI Clouding and Markups
- Floor Levels - Arrow buttons that link you up and down to corresponding levels
- Customized Linking (TBD)
- Skysite Hosting Platform – ARC Document Solutions will host all projects in Skysite (secure cloud-based project management application) and streamline team collaboration (www.skysite.com)

Reynolds School District, Day CPM, Architects and the CM/GC for each Bond Project will supply all update information directly to ARC Document Solutions by adding ARC Document Solutions to all project information distribution lists.

Because of hyperlinking available through ARC for all the project document control, the costs associates with item B.11 of the Cost of General Conditions Work Matrix, Exhibit C, of the form Contract should be limited. Production printing of the projects Plans and Specifications at various design phases will be through the hyperlink services provided by ARC, and ARC will be providing all limited hard copies that will be necessary. This will be a direct cost to the Project through the School District.

L. **SECURITY VERIFICATION "SECURITY AND BACKGROUND CHECK REQUIREMENTS"**
All Reynolds School District sites will be considered an open site for the purposes of this project. This means that a fingerprint based criminal history verification will be conducted on all personnel employed by the successful CM/GC and subcontractors on the project. This means that unsupervised contact between project personnel and students may occur. "Unsupervised contact" with students means contact that provides the person opportunity and probability for personal communication or touch with students when not under direct District supervision. As required by ORS 326.603, CM/GC shall ensure that CM/GC, any subcontractors, and their officers, employees, and agents will have no direct, unsupervised contact with students while on District property. Consultant shall work with District to ensure compliance with this requirement.

Successful CM/GC, (contractor), authorizes District to obtain information about personnel and subcontractor's and its history and to conduct a criminal background check, including analysis of fingerprints of any CM/GC's or subcontractor's officers, employees, or agents. CM/GC shall cause its employees and/or subcontractors, to

authorize District to conduct these background checks. CM/GC shall pay $59.00 for processing the background check in addition to required fingerprinting and notary services. CM/GC and its subcontractors must supply fingerprint cards for each employee proposed to work on the project to the District when applying for the security check. District may deduct the cost of such fees from a progress or final payment to CM/GC under their Contract, unless CM/GC elects to pay such fees directly at the time of application for the security check.

All contractors, subcontractors, and their employees whether full time or part time working at District sites must undergo a criminal history verification for disqualifying convictions per ORS 342.143 as mentioned criminal history verification checks will be conducted at the contractor's expense, by RSD. Prior to entry of a CM/GC's or subcontractor's employees onto a jobsite, the CM/GC and the subcontractor shall provide a list of its employees who have successfully undergone the criminal history verification check. Upon Contract execution, the CM/GC will supply a list of projected CM/GC personnel as well as subcontractor personnel during the Construction Phase. These people will be expected to attend a meeting as a group to complete paperwork and undergo mobile fingerprinting services. This District in an effort to expedite the review process will engage a third party company to do a preliminary background checks, while the background and fingerprinting verification is being process through the State of Oregon Department of Education. The cost of this additional background check is $6.50 per person. There will be a short form to be filled out by the prospective contractor employee with personal identification information checked by District representative on site. The CM/GC will issue a check that the covers the cost for groups of workers. Once the background check comes back without any issue the employee will then receive a temporary badge. This process should be expected to take between 24 – 48 hours. With the final approval there will be the issuance of final badge. All badges will be expected to be turned into the District by any of the badge owners at the conclusion of their participation on the Project.

Refer to the Reynolds School District Background & Security Verification Process flow chart in ***APPENDIX A*** PROJECT DESCRIPTION & INFORMATION.

3. PROPOSAL

3.1 Preparation

Proposals shall be prepared simply and economically, providing a straightforward format.

3.2 Format

Proposals shall conform to the following format:

The School District will not be liable for any expense incurred in the preparation of proposals. Proposers are encouraged to use creativity and to provide complete information in their written proposals.
However, except as provided otherwise below, a proposal response to section 3.2.2 shall be in a font size no smaller than 10 points and shall not exceed 30 single-sided pages or 15 double-sided pages, including pictures or diagrams. Resumes required by section 3.2.2.2, section

dividers and proposal form are excluded from the page limit. If a proposer exceeds the page limit in responding to section 3.2.2, the School District will consider the information on the first 30 pages, and may decline to consider information beyond the 30th page.

3.2.1 Proposal Form

The proposal form is included as Section 4 of this RFP. It shall be completed, executed and included as the first page of the proposal.

3.2.2 Required Submissions

Proposals shall contain the following information, provided in the order listed below. Concise and direct responses are encouraged.

3.2.2.1 Management of the Work

In detail, describe the overall plan to manage the project, including the following as a minimum:

a. Describe your proposed **Preconstruction Services Plan** that defines each preconstruction service you intend to provide including but not limited to:

1. Investigation of existing conditions to ensure construction documents reflect the actual site conditions;
2. Design and Construction Document coordination review and comments verifying their implementation. Describe your firm's approach when working as a project team member during design.
3. Design and target cost validation, budgeting; cost estimating and tracking and reconciliation with second parties. How do you manage price volatility and market conditions when providing cost estimates during the design phase without being unreasonably conservative;
4. Constructability issues including assistance identifying safe work practices and requirements for construction;
5. Value Engineering and alternative construction options, products and engineering systems for cost savings and life cycle cost design considerations;
6. Schedule, change recommendations and advice of long-lead procurement packages;
7. Recommended phasing and sequencing of work to maximize construction site efficiencies;
8. Assessment and recommended site logistics requirements;
9. Subcontract Plan preparation and procurement planning including strategy for use of local and MWESB firms.
10. Cost estimating methodology, and systems utilized to adhere to requirements for detailed accounting & tracking of costs in accordance with the project budget.

Address the person(s) responsible for each service, a description of the

deliverable(s) that will be provided to the Owner and design team upon completion of each service and the action you intend to take or intend for the design team to take based on the information contained in each deliverable.

Briefly identify two or more examples of projects that demonstrate the range of Preconstruction Services your firm has provided on previous public or private sector CM/GC projects or private sector projects with a guaranteed maximum price (GMP).concise description of the proposer's ability to satisfy the requirements of this RFP.

b. To clearly show an understanding of the scope and complexity of the work, identify key issues and/or potential constraints and risks anticipated for the project, including areas of design, construction, and management. Describe the plan for addressing these issues and maintaining the progress of the work.

c. Describe the work sequencing and phasing process that will be employed to ensure that existing adjacent operations and facilities are maintained throughout construction operations. With the understanding that a team effort by the School District, the design team, and the selected proposer will be required to develop an approach to the design and construction sequencing and phasing; include a discussion of the process employed by your firm to develop sequencing, phasing and a site logistics plans, that minimize disruptions to existing adjacent facilities and existing wetlands if they exist.

d. Describe your firm's approach toward managing fast track projects with critical timelines which have completion dates that cannot be moved.

e. Describe the plan to establish and maintain good relationships and foster open and productive communications with the School District, DAY CPM, the design team, and the public, including communication of current and upcoming construction activities while supporting district Local and Diverse Community Engagement Program (CEP) and promoting community partnerships.

3.2.2.2 Proposed Personnel and Organization

a. Provide a project organization chart showing the proposed key staff for this project in the following areas (at a minimum):

- Company executive with responsibility for the project and the authority to bind the company
- Project management
- Construction management and supervision
- Estimating
- Safety

- Quality control

Describe the duties and responsibilities for all key staff positions.

b. Indicate the approximate percentage of each week that each person shown on the organization chart is anticipated to be working on the project and their primary work location during the design and construction phases of the work

c. Include resumes for all key individuals shown on the chart. Resumes shall include education, work history, length of tenure with the proposing company, and specific project experience in the role proposed for this project. Each project experience example shall include the title, description, construction cost, dates and durations for the project and the name, company name, position title, and telephone number for the client representative that was responsible for the project.

d. Provide an organizational chart of the company. Include all wholly owned subsidiary companies and define their relationship in providing personnel or equipment for the project.

3.2.2.3 Cost Management

a. Describe how the proposer will approach cost estimating and value engineering.

b. Describe the plan for managing and tracking the cost for the work. Include descriptions of cost tracking tools and summary reports.

c. Describe the approach for establishing and maintaining a contingency fund to ensure that the project budget is not exceeded.

d. Describe the proposed method of documenting the line item components of the Guaranteed Maximum Price (GMP) and the method of determining whether project changes are inside or outside the scope of the GMP.

e. Describe past performance on other CM/GC contracts within the past seven (7) years. For each project, list the project name, client name, completion date, contract GMP, dollar amount of change orders, and client contact person including phone number.

3.2.2.4 Schedule, Quality Control, and Safety

a. Describe approach to managing the construction schedule. Include a description of the elements of this project that are likely to put the schedule at risk and how they would be proactively managed. Include descriptions of schedule tracking tools and summary reports.

b. Describe expectations for labor and materials availability on this project. Describe how anticipated challenges with availability of labor or materials could be mitigated. Explain the plan to generate sufficient subcontractor and/or material supplier competition in the bidding to minimize project costs.

c. Discuss opportunities and challenges that you see to complete the project in as efficient of manner as possible. Describe how the opportunities will benefit the county and describe how the foreseeable challenges will be addressed by your firm.

d. Describe your firms proposed quality control plan and how it will be implemented.

e. Describe your firms proposed general safety program, including training, hazard identification, and audit/inspection. Include specific information on subcontractor and employee accountability for safety, formal disciplinary program, and Company EMR (Experience Modification rating) safety record for the last three years.

3.2.2.5 Local Conditions/MWESBE Utilization and Community Partnership

a. Describe your firm's knowledge and experience with the labor market and building conditions in the Clackamas County and City of Fairview Metro area.

b. Demonstration of experience with local MWESB firms including a list of State of Oregon certified businesses that your firm has partnered or subcontracted within the last two (2) years, identify any MWESB firms that are part of your proposed team, and any innovative/successful measures your firm has undertaken to increase diverse business participation on projects in the Portland Metro area. Describe your approach to subcontractor and supplier procurement/selection process, and promoting participation in the project on the part of minorities, women, and emerging small business enterprises. Also describe your approach for local material suppliers, venders, and building trades. A local business is defined as a business that has an existing significant place of business located within the electoral and taxing boundaries of the Reynolds School District.

c. Describe your firm's approach to optimizing project spends for continual progress toward district Local and Diverse Community Engagement Program (CEP) goals including consideration of Student / Career Technical Education (CTE), Workforce, Faculty/Staff, Social Responsibility & Sustainability, Mentor-Protégé and Partnerships for community.

3.2.2.6 Contract Formats

a. The sample draft contract and general conditions to the contract presented

in Appendices B and C will be the basis of the agreements for services provided by the selected proposer on the project. During contract negotiations following selection of the highest ranked Proposer, Agency will entertain suggestions on refinement of the CM/GC Agreement and its Exhibits only when:

1. The general work scope remains the same; and

2. The field of competition does not change as a result of material changes to the requirements stated in the RFP.

The intent of these provisions is to avoid any unfair competitive advantage or disadvantage in the procurement process. Alternative approaches to structuring the GMP may be contemplated and allowable under these negotiations. The Agency intends to complete negotiations and enter into a contract within ten (10) days of the Notice of Intent to Award issuance, in accordance with OAR 125-249-0450, the right to extend that time at its sole discretion. An amendment to the initial CM/GC Agreement will be issued at the end of the end of Phase I and at the start of Phase II to execute the GMP agreement.

b. The sample negotiated construction agreement included in Appendix B will be used as the contract between the School District and selected proposer.

c. The sample general conditions to the contract included in Appendix C will be used as the general conditions between the School District and selected proposer.

d. In addition to the sample draft contract and conditions, it is further understood that any contract between the parties must meet the checklist requirements of OAR 137-049-200(1)(c) and all those items are hereby incorporated herein. This means that the eventual contract for the project must meet the following statutory requirements:

(A) Prompt payment to all Persons supplying labor or material; contributions to Industrial Accident Fund; liens and withholding taxes (ORS 279C.505(1));

(B) Demonstrate that an employee drug testing program is in place (ORS 279C.505(2));

(C) If the Contract calls for demolition Work described in ORS 279C.510(1), a condition requiring the Contractor to salvage or recycle construction and demolition debris, if feasible and cost-effective;

(D) If the Contract calls for lawn or landscape maintenance, a condition requiring the Contractor to compost or mulch yard waste material at an

approved site, if feasible and cost effective (ORS 279C.510(2);

(E) Payment of claims by public officers (ORS 279C.515(1));

(F) Contractor and first-tier subcontractor liability for late payment on Public Improvement Contracts pursuant to ORS 279C.515(2), including the rate of interest;

(G) Person's right to file a complaint with the Construction Contractors Board for all Contracts related to a Public Improvement Contract (ORS 279C.515(3));

(H) Hours of labor in compliance with ORS 279C.520;

(I) Environmental and natural resources regulations (ORS 279C.525);

(J) Payment for medical care and attention to employees (ORS 279C.530(1));

(K) A Contract provision substantially as follows: "All employers, including Contractor, that employ subject workers who work under this Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its subcontractors complies with these requirements." (ORS 279C.530(2));

(L) Maximum hours, holidays and overtime (ORS 279C.540);

(M) Time limitation on claims for overtime (ORS 279C.545);

(N) Prevailing wage rates (ORS 279C.800 to 279C.870);

(O) BOLI Public Works bond (ORS 279C.830(2));

(P) Retainage (ORS 279C.550 to 279C.570);

(Q) Prompt payment policy, progress payments, rate of interest (ORS279C.570);

(R) Contractor's relations with subcontractors (ORS 279C.580);

(S) Notice of claim (ORS 279C.605);

(T) Contractor's certification of compliance with the Oregon tax laws in accordance with ORS 305.385; and

(U) Contractor's certification that all subcontractors performing Work described in ORS 701.005(2) (i.e., construction Work) will be registered with the Construction Contractors Board or licensed by the State

Landscape Contractors Board in accordance with ORS 701.035 to 701.055 before the subcontractors commence Work under the Contract.

(V) Pursuant to ORS 279C.830(2), a provision stating that the Contractor and every subcontractor must have a Public Works bond filed with the Construction Contractors Board before starting Work on the project, unless otherwise exempt. This bond is in addition to performance bond and payment bond requirements. See BOLI rule at OAR 839-025-0015.

3.2.2.7 Deviations from the RFP

Identify specifically where and how the proposal deviates from the requirements of this RFP.

3.2.3 Fee Proposal (Reference Appendix E "General Conditions Matrix")

3.2.3.1 Present a proposed fee for providing the CM/GC services in two parts:

a. Preconstruction Services: Identify an estimated total cost and proposed hourly billing rates for services to be provided during the design phase of the project, prior to establishment of the negotiated Guaranteed Maximum Price (GMP). Identify activities, labor hours associated with each activity, proposed billing rates per hour for each person/position, and an estimate of expenses. This estimated cost will be the basis of negotiation of a not-to-exceed price for the preconstruction services contract with the School District. This price will be the maximum amount due the CM/GC if the CM/GC's services are terminated or the project does not proceed to construction for any reason, and if all of the services had been provided prior to cancellation. Refer to the Draft Master Schedule in Appendix D for the approximate duration of these services.

b. Construction Services:

c. Fixed Fee: Identify the fixed fee, as a percentage of the Guaranteed Maximum Price (GMP) for which the proposer's firm would contract to perform the required services. Identify what costs the proposer will include in the fixed fee. Identify all proposed project staff that would be included as part of the fixed fee. At a minimum, the Fixed fee shall include: Corporate Overhead and Profit, costs for Performance and Payment bonds, Commercial General Liability/Auto Insurance, Builders Risk insurance, Corporate office administrative expenses and support staff.

General Conditions: Identify and estimate the cost of expenses, other than direct construction labor and material costs, which will be included in the reimbursable cost of work as part of the General Conditions. Refer to Exhibit C Cost of the General Conditions Work of Appendix B "CM/GC Contract" as a guideline for developing detailed cost breakdown of costs.

Provide detailed breakdown estimate of General Conditions.

Self-performed Work: Identify what portions of the work that the proposer anticipates to self-perform and what mark-ups are proposed to apply to the direct costs of this work. CM/GC shall be required to publically announce any work for those items which it intends to bid in the publicly advertised invitation to bid. Sealed bids will be delivered 24 hours before the appointed bid time to Owner, and publically opened by the Owner for any work which the CM/GC intends to provide a bid to self-perform.

4. PROPOSAL FORM

CONSTRUCTION MANAGER/GENERAL CONTRACTOR (CM/GC) SERVICES

REYNOLDS SCHOOL DISTRICT – THE NEW FAIRVIEW REPLACEMENT ELEMENTARY SCHOOL

The undersigned proposer submits this proposal in response to the Reynolds School District's Request for Proposals (RFP) dated June 28, 2016, for the contract named above. The proposer warrants that proposer has carefully reviewed the RFP and that this proposal represents proposer's full response to the requirements described in the RFP. The proposer further warrants that if this proposal is accepted, the proposer will contract with the Reynolds School District, agrees to all terms and conditions found in the attached contract, and will provide all necessary labor, materials, equipment, and other means required to complete the work in accordance with the requirements of the RFP and contract documents.

No proposal will be considered unless the proposer is licensed with the State of Oregon Construction Contractors Board, pursuant to ORS 701.055 (1), prior to submitting a proposal. The proposer hereby acknowledges the requirement to carry or indicates the ability to obtain the insurance required by the contract documents. Indicate in the affirmative by initialing here:

The proposer hereby acknowledges receipt of Addendum Nos. , , , to this RFP. Name of

Proposer: Business Address: Telephone Number: Fax Number: Email Address:

_____

_____

_____

Authorized Signature:

Printed/Typed Name:

Title:

Date:

State of Oregon Construction Contractors Board License No:

Note: Complete and execute this form and include as the first page of the proposal.

5. EVALUATION OF PROPOSALS

5.1 General

Proposers for the CM/GC services will be evaluated and rated based on their written proposal and interviews. Submittal requirements for the proposal are detailed in section 3. It is the School District's intent to select a single CM/GC contractor for this solicitation.

5.2 Competitive Range

An evaluation team will determine which proposals are within the competitive range in accordance with the evaluation criteria set forth below. Only those proposals determined within the competitive range will be considered for Interviews and award. Interview of Finalist shall be based on criteria and scoring of sections: 3.2.2.1- 3.2.3.1 as noted below in section 5.4.

5.3 Interviews

The evaluation team will interview a short list of finalist of two or more proposers to assist them with their evaluation and final selection of a CM/GC. Interviewed proposers should be prepared to respond to questions related specifically to their proposals and other pertinent matters regarding the RFP.

Should your firm be invited to interview, questions will be directed to the proposed key Project staff. At a minimum, the corporate executive dedicated to the Project, the project manager, the project superintendent, project field engineer, project estimator, and the key individuals responsible for preconstruction services shall be in attendance.

In addition to presenting qualifications, experience, and the project team's approach to the Project, the interviewees will be expected to respond to questions from the panel regarding the firm's proposal as well as additional questions that might be posed in correspondence directed to the most qualified proposers after this solicitation is closed. The length and format for the interview will be provided to the short listed firms.

5.4 Evaluation Criteria

The School District evaluation team will consider information provided in the written proposal and interviews, according to the following criteria, to rank the proposers in order of suitability to meet the School District's needs. Maximum available points for both written proposals and interviews will be 100 and the maximum points available for each evaluation criteria are listed in parentheses after the criteria.

1 3.2.2.1 Management of Work: (15 points maximum)

2 3.2.2.2 Proposed personal and project organization (20 points maximum)

3 3.2.2.3 Cost management (15 points maximum)

4 3.2.2.4 Schedule, quality control and safety plans (15 points maximum)

5 3.2.2.5 Local Conditions/MWESBE Utilization and Community Engagement (15 points maximum)

6 3.2.3.1 Fee Proposal: Preconstruction and Construction services (20 points maximum)

7 Interview of short listed Finalist (75 points)

8 Total possible points (175)

After evaluation by the team, the team will recommend to the Reynolds School District Commission that the top-ranked proposer be invited to work with the School District and that negotiations progress to finalize the contract. If the School District is unable to successfully negotiate with the top-ranked proposer, the School District reserves the right, at its sole discretion, to terminate negotiations and begin new negotiations with the next highest-ranked proposer.

The School District reserves the right to waive informalities or to reject any and all proposals.

END OF RFP

APPENDIX A
Project Description

- **Schematic Design Note Book by BLRB Architects, dated June 24, 2016**
- **Schematic Design Drawings by BLRB Architects, seven sheets total**
- **Topographic Survey of Fairview Elementary School by Chase Jones & Associates dated April 15, 2016**
- **Phase 1 Environmental Site Assessment of Fairview Elementary School by GeoDesign, Inc. dated April 13, 2016**
- **Report of Geotechnical Engineering Services for Fairview Elementary School by GeoDesign, Inc. dated May 9, 2016**
- **Pre Demolition Hazardous Building Material Survey Report for Fairview Elementary School by PBE Engineering + Environmental dated March 2016**
- **Findings of Fact for Exemption from Competitive Bidding and the use of the Construction Manager/General Contractor (CM/GC) Method of Contacting for the Reynolds School District #7 Three New Replacement Elementary Schools – Resolution No. LCRB 2015-2016-002**
- **District Local and Diverse Community Engagement Program (CEP)**
- **Reynolds School District Background & Security Verification Process flow chart**

FAIRVIEW ELEMENTARY SCHOOL

Reynolds School District

SCHEMATIC DESIGN NOTEBOOK

JUNE 24, 2016

BLRB architects

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Table of Contents

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Project Team

Project Site

Fairview Elementary
225 Main Street
Fairview, Oregon 97024
(503) 667-2954
Jonathan Steinhoff, Principal
jsteinhoff@rsd7.net

Owner

Reynolds School District No. 7
1204 NE 201St Avenue
Fairview, Oregon 97024
Rachel Hopper, Chief Financial and Operations Officer
ph: (503)661-7200 x3406
e: rhopper@rsd7.net

Architect

BLRB Architects
1001 SW 5th Avenue
ph: (503) 535-0707
fx: (503) 220-1815

Richard Higgins, Principal in Charge
e: rhiggins@blrb.com

Doug DuCharme, Project Manager
e: dducharme@blrb.com

Chuck Crane, Project Architect
e: ccrane@blrb.com

Construction Management

DAY CPM Services
12745 SW Beaverton Road, Suite 120
Beaverton, Oregon 97005
ph: (503)641-4100
fx: (503) 641-4101

Robert Collins, Senior Project Manager
e: rcollins@daycpm.com
cl: (503) 434-3650

GC/CM

NA

Surveyor

Chase, Jones, & Associates Inc.
716 SE 11th Ave #2
Portland, Oregon 97214
ph: (503) 228-9844
w: chasejonesinc.com

Surveyor

Soils/Geotechnical

GeoDesign, Inc.
15575 Se Sequoia Parkway Suite 100
Portland, Oregon 97224
ph: (503) 726-3135
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SCHEMATIC DESIGN

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Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Architectural – Narrative

Background:
The origin of the current Fairview Elementary School dates to the late 1920s. Fairview Elementary is one of the oldest school buildings in the Reynolds District.

In 2015, Reynolds School District completed a Facility Master Plan which called for the replacement of the Fairview Elementary School Building on the current site. An extensive assessment of the facility determined the building is a "high seismic risk", lacks compliance with accessibility requirements, and does not meet current educational standards. Costs to repair the existing building were found to greatly outweigh the cost to replace.

In May 2015, District voters approved a $125 million bond referendum which funded the construction, furnishing and equipping of this and other school improvement projects throughout the District.

Proposed Project:
To meet the school and District's needs, the Fairview Elementary School building will be replaced on its 4.77 acre site located between 1st and 3rd Street just north of Main Street.

The project is proposed to include construction of a new elementary school building of approximately 72,000 square feet to be located in a playfield northeast of the current building.

The current school will remain in operation until the new building is ready for occupancy. Demolition of the existing structure will follow remediation of hazardous materials in accordance with applicable regulations. The current site of the buildings and parking will then be developed into open fields, parking and student drop off areas.

The new building will increase student capacity and continue to house up to 588 elementary students in grades Kindergarten through 5th. The school will be designed to provide a student-centered learning environment supporting current and future instructional methods. A key principle of the Owner is to provide a safe and secure environment for the children. Improved outdoor instructional and play areas will be provided.

Safe and efficient traffic flow for buses and parents is also a prime consideration in the site planning. On-site automobile traffic is to be separated from school bus traffic to facilitate peak student loading and unloading at the beginning and end of the school day.

In addition to its educational purpose, the building serves Community uses as a key element of the design. Assembly spaces accessible to the community after school hours will include a gymnasium housing a high school size basketball court, a cafeteria (learning commons) with stage, a library, and a flexible classroom/multipurpose space.

The main entry point for both students/staff and visitors will be configured with a secured vestibule such that at least one pair of double doors will enter direct into the entry corridor during the start of school and a secondary door will enter direct into the front office. Once school is in session, the direct corridor entry will be automatically locked. From the office, another door will be provided to bypass the secured vestibule once the individual has checked in with reception. All the doors in this configuration will be on the access control system and provided with ADA operators and card readers as needed.

SCHEMATIC DESIGN

Architectural – Narrative

The front office windows and reception desk will be designed to provide good visibility for natural surveillance of the main entry door configuration and the parking lot. The lockdown initiation button shall be installed in the reception desk.

Additionally windows and doors within this area will also be designed with safety film to deter or delay forced entry. Special consideration will be taken when selecting interior and exterior lighting as well as window treatments. Lastly clear and direct signage shall be provided to clearly note restricted access and direct visitors to the main entry to check in.

A comparison of the existing and currently proposed facilities is summarized as follows:

Feature	Existing	Current Proposed
Student Capacity	515	588
Building Size (Sq. Ft.)	63,066	72,000
Classrooms	26	28
Buses-Large	2	6
Buses-Special Education	4	2

In addition to its educational purpose, the building serves Community uses as a key element of the design. Assembly spaces accessible to the community after school hours will include a gymnasium housing a high school size basketball court, a cafeteria (learning commons) with stage, a library, and a flexible classroom/multipurpose space.

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Structural – Narrative

GENERAL APPROACH

The structural system for Fairview Elementary School will consist of structural steel framing with CMU walls at the gymnasium. The roof framing will consist of steel open-web joists at long span areas over the gymnasium, commons area, and media center. A five foot deep truss will be used at the proscenium opening. Other areas of the roof will be framed with a combination of steel wide flanged beams and open-web joists. The roof framing will support a 3" metal roof deck with acoustic deck at the gymnasium and commons area. Lightweight concrete topping will be added to the roof to help dampen sound.

At the second level, the floor will consist of concrete composite slabs with 3" concrete topping over a 3" metal floor deck. The slabs will be supported by steel wide flange girders and beams. The steel framing of the roof and floors will be supported by steel tube columns and CMU bearing walls. The foundation system for the structure will consist of conventional concrete spread footings with continuous footings under bearing walls. Concrete stem walls will be required at portions of the building perimeter where the elevation of the exterior grade is higher than the main level floor.

Per the geotechnical report by GeoDesign, the footings are to bear on a 4 inch thick granular pad underlain by undisturbed native soil or structural fill. The allowable bearing pressure is 2500 psf. The ground floor will consist of a reinforced 4" thick concrete slab on grade over 6" of gravel. An underground Radon removal piping system will be embedded below the slab. Lateral loads on the building will be resisted by a combination of steel braced frames and CMU shear walls.

SEISMIC RESILIENCY

The seismic resiliency of the building will be based on minimum code requirements conforming to the 2014 Oregon Structural Specialty Code (OSSC). School buildings are considered a risk category III structure so they are designed to a higher performance level than a standard office or retail building. Schools are designed with an Importance Factor of 1.25 as opposed to 1.0 for typical buildings. Therefore, they are designed for 25 percent higher seismic forces. If it is desired to design the school as an essential facility, similar to hospitals and emergency facilities, the Importance factor would be 1.5. Therefore, the school would have to be designed for a 20 percent increase in seismic forces. This increase in force would affect the lateral system, such as braced frames and shear walls, including foundations at those elements, as well as diaphragm connections and collectors. The increase in force would also affect non-structural elements such as MEP equipment anchorage and bracing. In our experience the increase in structural costs to design a school as an essential facility is $1.50 to $2.00 per square foot.

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

BUILDING ENVELOPE

The performance of the building envelope will be critical both to the energy efficiency of the building and to the comfort level of the occupants. The proposed mechanical systems and preliminary equipment sizing are based on the following performance for each envelope component:

Category	Option 1	Option 2	Option 3
Exterior Wall Construction	Overall U-Factor = 0.025, R = 40	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.064, R = 16	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.064, R = 16
Roof Construction	Overall U-Factor = 0.02, R = 50	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.05, R = 20	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.05, R = 20
Windows	0-30% Glazing Assembly U-Value = 0.3 Solar Heat Gain Coefficient (SHGC) = 0.4	Oregon Energy Efficiency Code Min: 0-30% Glazing Assembly U-Value = 0.45, Solar Heat Gain Coefficient (SHGC) = 0.4	Oregon Energy Efficiency Code Min: 0-30% Glazing Assembly U-Value = 0.45, Solar Heat Gain Coefficient (SHGC) = 0.4
Infiltration	0.18	Not Regulated	~0.05 cfm/sq.ft.
Orientation	As Designed	Average of (4) 90° rotations	As Designed

Table 1: Envelope Component Performance

MECHANICAL HVAC SYSTEMS DESIGN CRITERIA

Outdoor Conditions	Summer	Winter
ASHRAE 0.4% Summer and 99.6% Winter Data	91°F DB/ 68°F WB	24°F

Table 2: Outdoor Conditions

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Indoor Conditions	Summer	Winter
Offices and Classrooms	74°F ±2°F	70°F ±2°F
Cafeteria	74°F ±2°F	70°F ±2°F
Media Center	74°F ±2°F	70°F ±2°F
Storage	85°F ±2°F	60°F ±2°F
Circulation and Restrooms	78°F ±2°F	68°F ±2°F
Relative Humidity	<50% ±5%RH	No control

Table 3: Indoor Conditions

Outside Air Requirements	
General Office	20 CFM/person
Classrooms	15 CFM/person
Exhaust Air Requirements	
Restrooms and Janitors	2.0 CFM/sq ft
Acoustical Criteria	
Offices	RC 40
Classrooms	RC 30
Public/Open Areas	RC 45
Internal Loads	
Naturally ventilated space temperatures should based on outside air temperature and the following table from ASHRAE Standard 55: Acceptable operative temperature ranges for naturally conditioned spaces	

Table 4: Indoor Conditions

Low-Pressure Ductwork	
Static Pressure Loss	Maximum 0.1 inches WC per 100 feet
Main Velocity	Maximum 1,500 feet per minute
Branch Velocity	Maximum 1,200 fpm
Flexible Ducts	Maximum length 7 feet/ minimize total 90° bends.
Medium-Pressure Ductwork	
Static Pressure Loss	Maximum 0.28 inches WC per 100 feet
Main Velocity	Maximum 2,400 feet per minute
Branch Velocity	Maximum 2,000 fpm
Hydronic Piping	
Static Pressure Loss	Maximum 4 feet WC per 100 feet
Velocity	Maximum 7 feet per second

Table 5: Duct and Pipe Sizing Criteria

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

HVAC SYSTEMS OPTION 1

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A super-performing envelope (see Section 2.0) will allow for passive heating in the classroom areas. This means that the heat loss through the envelope will be lower than the heat generated inside the space due to occupants, lights, and plug loads when the outside air temperature is 35F or above. For night low limit and colder days, electric cove heaters will be provided to maintain space temperature. Cooling will be achieved through operable windows.

The media center will be provided with a packaged roof A/C unit equipped with gas heat.

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and gas heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units. Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM ERVs, flat plate w/ electric heating coil (Ventilation air) – Renewaire
- (1) 6,000 CFM ERVs, flat plate w/ electric heating coil (Ventilation air) – Renewaire
- (1) Gas Fired MAU – 1,000 CFM
- (1) Media Center Packaged Rooftop unit A/C unit with Gas Heat– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (2) Gym rooftop AHU w/ heat recovery & gas heat – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF)- Aaon
- (1) Commons rooftop AHU w/ heat recovery & gas heat – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (2 per classroom) 1.5 kW Cove heaters (Qmark)
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF)

HVAC SYSTEMS OPTION 2

High efficiency, gas-fired, condensing boilers will be located in first floor mechanical room. Boilers will provide heating water to heating coils in AHU's and space heating equipment.

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A code envelope will be provided. Finned tube radiators at the perimeter will be provided to maintain space temperature. Cooling will be achieved through operable windows.

The media center will be provided with a packaged roof A/C unit equipped with hydronic heat.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and hydronic heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units. Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (2) 6,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (1) Hydronic MAU – 1,000 CFM
- (2) 1,500 MBH Condensing Boilers - Crest
- (2) 150 GPM Pumps
- (1) Media Center Packaged Rooftop A/C unit with hydronic heating coil– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (1) Gym rooftop AHU w/ heat recovery & hydronic heating coil – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF) - Aaon
- (1) Commons rooftop AHU w/ heat recovery & hydronic heating coil – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF)
- Perimeter finned tube radiation with sloped top

HVAC SYSTEMS OPTION 3

High efficiency, gas-fired, condensing boilers will be located in first floor mechanical room. Boilers will provide heating water to heating coils in AHU's and space heating equipment. A changeover valve will be provided so that a future air cooled chiller can be connected to the hydronic distribution system to provide cooling to the classrooms in the future.

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A code envelope will be provided. Radiant ceiling panels or radiant floors will be provided to maintain space temperature. Cooling will be achieved through operable windows. Future cooling could be provided by circulating chilled water through the radiant system.

The media center will be provided with a packaged roof A/C unit equipped with hydronic heat.

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and hydronic heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (2) 6,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (1) Hydronic MAU – 1,000 CFM
- (2) 1,500 MBH Condensing Boilers - Crest
- (2) 150 GPM Pumps
- (1) Media Center Packaged Rooftop A/C unit with hydronic heating coil– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (1) Gym rooftop AHU w/ heat recovery & hydronic heating coil – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF) - Aaon
- (1) Commons rooftop AHU w/ heat recovery & hydronic heating coil – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF) Radiant ceilings (60% of ceiling area) or radiant floors with a zone per each classroom.

COMPARISON OF OPTIONS

1 = Highest Cost5 = Lowest Cost

System Options			
System	Option 1	Option 2	Option 3
System Description	Passively heated and cooled classrooms	Actively heated classrooms	Actively heated classrooms with option of future cooling
Capital Cost	Low	Medium	High
Annual Energy Savings	High	Medium	Medium
Energy Savings Incentive Potential	High ETO	Medium ETO	Medium ETO
Service Life	10 years cove heaters 40+ years envelope	20 years	20 years
Advantages	1. No chiller 2. No boilers 3. Low maintenance 4. Least energy use 5. Reduced heating energy cost	1. Traditional system. 2.	1. Potential to add cooling to classrooms

System Options			
Disadvantages	1. Dependent on envelope performance. 2. No cooling possible	1. Added maintenance cost. 2. Not able to add cooling in future.	1. Higher first cost.

Table 6: Heating System Options

EXHAUST SYSTEMS

Exhaust air for toilet rooms, janitor's closets, copy rooms, general room exhaust and similar uses will be ducted to the roof and used for heat recovery in the classroom and admin areas. Kitchen will be served by a Type 1 and Type 2 exhaust fan connected to hoods specified by the Kitchen Consultant.

CONTROLS

A direct digital control (DDC) system will be provided to control and monitor all HVAC equipment and systems. Valve and damper actuation will be electric type. The control system will be integrated into the existing campus system to allow full control and monitoring from the existing operator's terminal. The control system will perform all required control functions, including optimization of equipment and system performance, reliability, equipment life and energy consumption.

An extensive measurement and verification system is anticipated to carefully monitor all of the building's energy use.

PLUMBING SYSTEMS DESIGN CRITERIA

Domestic Water Piping	
Minimum Pressure	35 PSI at most remote outlet
Maximum Pressure	80 PSI
Static Pressure Loss	Maximum 6 psi per 100 feet
Velocity	Maximum 8 feet per second (Cold Water) Maximum 5 feet per second (Hot Water)
Storm Drainage	
Rainfall Rate	Maximum 1.3 Inch/hr
Piping Slope	Minimum 1/8" per foot
Waste and Vent Piping	
Sizing	
Piping Slope	Minimum 1/4" per foot
Solar Hot Water Piping	
Static Pressure Loss	Maximum 6 psi per 100 feet
Velocity	Maximum 5 feet per second

Table 7: Plumbing Piping Sizing Criteria

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

PLUMBING FIXTURES

Commercial grade low flow fixtures will be provided where indicated on the architectural drawings.

Plumbing Fixture Types and Locations						
Fixture	Location	Type	Control	Flow	Basis of Design	Notes
WC-1 Water Closet	Restrooms	Wall hung, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	
WC-2 Water Closet	Restrooms (ADA wheel chair and ambulatory stalls)	Floor mounted, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	Seat at 18-inches above floor, centerline at 17-inches from wall
WC-3 Water Closet	Restrooms	Junior, Wall hung, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	Seat at 10-3/4" inches above floor
L-1 Lavatory	Restrooms	Counter mounted, vitreous china	Sensor Operated	0.5 GPM	Kohler sink basin with Delta faucet	All locations are ADA accessible
U-1 Urinal	Restrooms	Floor mounted, vitreous china	Sensor Operated flush valve	0.5 GPF	Kohler Urinal with Sloan flush valve	
U-2 Urinal	Restrooms (ADA)	Floor mount, vitreous china	Senor Operated flush valve	0.5 GPF	Kohler Urinal with Sloan flush valve	Rim mounted at 17-inches above floor

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Plumbing Fixture Types and Locations						
Fixture	Location	Type	Control	Flow	Basis of Design	Notes
S-1 Sink	Kitchenettes	Self rimming, counter mounted, Stainless steel	Single lever faucet, swing spout	1.5 GPM	Elkay sink basin with Delta faucet	ADA faucet
DF-1 Drinking fountain with bottle filler	Varies	Dual height with bottle filling station, stainless steel	Front push pad operation for drinking fountains and sensor operation at bottle filler	1.5 GPM at bottle filler	Elkay	Non-refrigerated

Table 8: Plumbing Fixture Types and Locations

Commercial grade fixtures will be provided where indicated on the architectural drawings. Refer to table below for representative flow rates for each type of fixture.

Water closets, urinals and lavatories will be low flow type.

Kitchen Faucets will be Code Flow type.

Fixture Type	Code Flow	Low Flow	Ultra-Low Flow	No Flow	ASHRAE 189	Proposed
Water Closet	1.6 GPF	1.6/1.1 GPF Dual Flush	1.28 GPF	Composting	1.28 GPF	1.28 GPF
Urinal	1.0 GPF	0.5 GPF	0.125 GPF	Waterless	0.5 GPF	0.5 GPF
Lavatory – commercial	.5 GPM	1.0 GPM	0.5 GPM	--	0.5 GPM	0.5 GPM
Shower	2.5 GPM	2.0 GPM	1.5 GPM	--	2.0 GPM	1.5 GPM
Kitchen Faucet	2.5 GPM	2.2 GPM	2.0 GPM	--	2.2 GPM	2.0 GPM
GPF = Gallons per Flush GPM = Gallons per Minute						

Table 9: Fixture Options and Alternates

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

DOMESTIC COLD WATER SYSTEM

An existing water main located in NE 169th Ave will serve the domestic water system. A 4-inch water service will be extended to the building and connect to the new service provided by Civil. The backflow device on the incoming domestic water supply will be located in a vault by civil. The domestic water system shall be provided with positive means to control backflow, with appropriate backflow preventers at sources of possible contamination within the building, such as mechanical equipment or industrial cold/hot water systems.

Cold water will be distributed to the plumbing fixtures. Refer to Architectural Drawings for plumbing fixtures and room locations. Freeze-proof hose bibs to be distributed around perimeter of building at every 100 feet, and be provided for the service yard.

Type L copper piping will be used for all above grade water piping and Type K copper will be used for below grade piping.

Irrigation: A backflow device will be provided for the irrigation system within the water service room. Irrigation piping will be stubbed out of the building for the landscape use.

DOMESTIC HOT WATER SYSTEM

Domestic hot water and will be provided from two electric hot water heaters serving the classroom pods (one served the east pod, the other serves the west pod). A high-efficiency gas-fired water heater will serve the Kitchen loads. The domestic hot water system components shall be controlled by the building management system. A master thermostatic mixing valve will temper the hot water to 120°F for general use, and an additional thermostatic mixing valve will provide tempered water at 90°F for emergency fixture use.

A recirculating hot water loop and hot water circulation pump will be provided. The water heaters will produce 140°F for health and equipment efficiency purposes. A master mixing valve assembly will be utilized at water heaters to temper the hot water for plumbing fixture use to deliver 120°F hot water. Expansion tanks will be provided on hot water systems at water heaters to eliminate pressure buildup when the system is not being used.

Equipment:

- (1) 150 MBH condensing gas water heater w/ 100 gallons storage capacity
- (2) 45kW electric water heater w/ 120 gallons storage capacity
- (3) Recirculation pump
- (3) Expansion tank
- (3) Master mixing valves

All domestic hot water supply and return piping shall be type L copper with soldered or brazed joints.

STORM DRAIN SYSTEM

A roof and overflow drain system will be provided as required by code. Overflow storm drain system will daylight utilizing downspout nozzles at the first floor level above grade. The storm water piping shall be routed to the west side of the building to an underground civil connection.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

SANITARY SEWER SYSTEM

Sanitary waste and vent piping will be provided toilet rooms and other spaces as required. A grease waste system will be provided for the Kitchen with the grease interceptor located on the west side of the building by civil. Sump pumps will be provided for elevator shafts, and connected to the gravity sanitary system within the building.

All sanitary waste and vent piping shall be cast iron with no-hub couplings.

NATURAL GAS SYSTEM

A new natural gas service will be provided from an existing gas main. Gas piping up to, and including the gas meters will be by NW Natural.

All natural gas piping shall be schedule 40 black steel with screwed or welded fittings.

Natural gas will be extended to serve the new boilers, water heaters, gas fired AHUs and Kitchen loads. Connection to the gas meter and installation of the house gas piping shall be per local gas company and OSSC requirements.

Separate gas sub-meters will be provided for the Kitchen and mechanical loads.

FIRE PROTECTION SYSTEMS DESIGN CRITERIA

Hazard Level	
Office and Classroom Areas	Light Hazard
Mechanical & Storage Areas	Ordinary Hazard

Table 10: Hazard Levels

WET PIPE SPRINKLER SYSTEM

A 4-inch fire service will be provided and enter the building at the Riser Room.

The entire building will be totally sprinklered in accordance with NFPA 13. A detector double check assembly will be provided for the fire service in the riser room. The fire department connection (FDC) will be located on the building, at a location to be determined.

All required system isolation valves shall be provided with tamper switches. Each floor shall be provided with a zone isolation valves with tamper switches, flow switches, fire department test stations, and hose valves (as required). The fire department test drain shall terminate outside of the building. All fire protection system materials to be of a domestic manufacture.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Fire sprinkler heads to be chrome plated semi-recessed pendant type with polished chrome escutcheons in finished areas and upright rough brass finish type heads in unfinished areas. Horizontal dry sidewall sprinkler heads will be provided for overhangs, loading dock, and other perimeter areas subject to freezing. Quick-Response heads will be provided in all light hazard areas.

DRY PIPE SPRINKLER SYSTEM

Dry pipe sprinkler systems will be used where sprinklers are subject to freezing such as exterior covered walkways connected to the building and overhangs. Dry pipe systems shall be galvanized inside and out, threaded or with cut grooves.

ELECTRICAL SERVICE AND DISTRIBUTION DESIGN CRITERIA

Load Densities: Lighting and Power Systems

The following load allowances will be provided for the project:

Area	Lighting Systems (VA/sf)	Power Systems (VA/sf)
Offices	1.0 – 1.1	7 – 10
Class Rooms	1.25 – 1.4	25*
Circulation/Transition	0.5 – 0.6	1.0
Service Areas	0.5 – 0.6	0.5
Stairs	0.5 – 0.6	0.5
Restrooms	0.9	1.0
Storage	0.9	0.5
Mechanical/Electrical Areas	0.9	0.5

Table 11: Lighting and Power Load Densities

SERVICE

The main power service will be provide by the local utility, PGE. The project will provide the conduit system to the service tie in point, as designated by PGE, and a transformer vault in the service yard. PGE will provide the service conductors and the service transformer.

DISTRIBUTION

The main service will be approximately 2000 amps and the main service voltage of 480Y/277V will be used to feed lighting and large mechanical loads. A secondary voltage of 208Y/120V will be derived using energy efficient dry type transformers.

The main 480vac service panel (MDP) will be located in the main electrical room on level 1 SW corner of the building, also located in the main electrical room will be a step down transformer and 208vac sub-distribution panel. These two distribution panel will provide services to the branch panels through the building.

480vac and 208vac branch panels and local step down transformers will be provided throughout the building, and located in dedicated electrical rooms, as required for local area receptacle and lighting circuiting requirements, with areas of coverage as follows:

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Level 1:

- Kitchen: a 480vac panel, step down transformer and 208vac panels, located back of house kitchen space.
- Gym: a 480vac panel, step down transformer and 208vac panels, located in the gym office, flush mounted.
- Admin area: a 208vac panel for branch circuits.
- Classroom pods: (three areas) a 480vac panel, step down transformer and 208vac panels, located in electrical rooms.

Level 2:

- Mechanical room: a 480vac panel, step down transformer and 208vac panels, located in the mechanical room.
- Classroom pods: (three areas) a 480vac panel, step down transformer and 208vac panels, located in electrical rooms.

Refer to attachments for locations of electrical equipment panels and estimated sizes of electrical rooms.

Branch Circuit Wiring: Copper conductor in EMT raceway. Each branch circuit will be provided with a dedicated neutral conductor.

Building Power Receptacles: Receptacles will be provide throughout the building interior spaces as appropriate for the space usage. Service/maintenance receptacles will be provide at the exterior, in the electrical and mechanical spaces and the roof top. Ground fault circuit interrupter receptacles will be provided in toilet rooms at sinks, roof, outdoor and wet areas or as code required.

Equipment Connections: Electrical power connections will be made to all mechanical equipment, to include providing all electrically associated devices such as disconnect switches, contactors, magnetic or manual starters, lock-out switches, etc., not furnished under Division 23. VFD's furnished under Division 23 and installed under Division 26.

Electrical power connections will be made to support miscellaneous equipment. Connections include disconnect safety switches and wiring to support interlocks to remote devices.

Kitchen Equipment Connection: electrical connections to kitchen equipment will be based upon the requirements as designated by the kitchen consultant, kitchen spaces will be provided with GFCI type receptacles. Connections to the kitchen cooler and freezer will be from the diesel generator power source.

ON-SITE POWER SYSTEMS

EMERGENCY GENERATOR

Emergency (egress lighting) and Optional Standby power will be provided by a diesel fired generator. The diesel generator will be a self-contained, exterior located unit with a weather proof housing and a

built in base fuel tank. The generator is to be located at the service yard at the SW corner of the building. The base fuel storage tank will provide for a minimum of 12 hours power source operation.

Separate automatic transfer switches (ATS) are provided for emergency loads and optional standby loads. Emergency loads will be those designated as life safety meeting the criteria of NEC 700, mainly the egress lighting. Optional Standby loads (NEC 702) will include the telecom room loads, kitchen coolers/freezers, gym lighting, mechanical, electrical and telecom room lighting.

The ATS(s) and associated 408vac, stepdown transformer and 208vac panel will be located in a dedicated electrical room next to the main electrical room.

UNINTERRUPTIBLE POWER SUPPLY (UPS)

UPS (Uninterruptible Power Supply) power will be provided using a battery storage UPS unit. UPS will be located in the telecom MDF, IDF rooms. The UPS will be powered from the generator source and provide the transition time from loss of utility power to start and transfer of load to the generator and, the return to the utility upon confirmed stability of the source.

RENEWABLE POWER SUPPLY (PV)

The potential to add a renewable photovoltaic system or a system that is "PV-ready" are being considered. The PV system would tie into the main power service at the main electrical room panel. Electrical power generated would be first used to serve the building needs and surplus not consumed by the building electrical system, would be sent to the electrical utility company.

GROUNDING SYSTEM

Two grounding criteria will be addressed, safety and performance. A safe grounded power system will be provided in compliance with the NEC. This ground system consists of the building service ground (multiple ground rods, connections to the building slab rebar, and bonding to the water service and structure steel. The safe grounding system will be extended thru out all electrical systems in facility. All metallic systems will be grounded to the building grid. A dedicated ground conductor will be provided with each feeder and branch circuit. A copper ground buss will be provided in each MDF and IDF room and tie to the main grounding system, the telecom equipment will be grounded to the buss.

LIGHTING DESIGN CRITERIA

Area	Source	Light Level Ambient (ave FC)	Light Level Emergency (ave FC*)
Offices	LED	10-20	1.0
Circulation/ Transition	LED	15 – 25	1.0
Service Areas	LED	15 – 25	NA
Stairs	LED	15 – 25	1.0
Restrooms	LED	30 – 40	1.0
Storage	LED	15 – 25	NA

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Mech/Elec Areas	LED	35 – 45	1.0
Classrooms	LED	15-25	1.0
(* Emergency Lighting: Emergency lighting system and panel capacity will be designed on the basis of 0.25 volt-amperes/sq. ft. of gross space)			

Table 12: Lighting Design Criteria

SITE LIGHTING

Building lighting will be integrated with the building exterior features. Illumination will be provided for passage and security/safety, and to provide highlights to the exterior elements. Site illumination will use a combination of pole mounted lighting for parking areas and shorter pole mounted lighting and bollards for circulation areas. The source type used will be LED, height and style will depended on the luminaire location and distance from the lit task. All exterior luminaires will use cutoff optics to address light trespass issues. Lighting control will be photocell and programmable timeclock controls.

INTERIOR LIGHTING

The electrical lighting systems will be designed in compliance with the State of Oregon Structural Specialty Code. Energy efficient sources and automatic control technologies will be implemented to provide the most efficient and effective electric lighting system for the facility occupants and task. Controls will provide switching and dimming of the lighting to permit maximum use of the available natural light.

Designs will be based on LED technology sources for the project. The type of luminaire will be coordinated with area task. Illumination issues to be addressed include lighting levels, photo-sensitive areas, uniformity and glare.

LIGHTING CONTROLS

Control of lighting will be provided by the following methods for the respective tasks/areas:

Task/Area	Control Method
Building Exterior and Site	Time Clock and Photocell
Corridors	Corridor Occupancy Sensor for Egress Lighting, Timeclock control for normal lighting.
Classrooms Spaces	Wall Switches, Occupancy sensors, Daylighting dimming
Offices	Occupancy (vacancy) Sensor with manual override switch
Gym / Commons	Wall Switches and afterhours timeclock
Stage	Wall Switches / dimmers
Media Center	Occupancy (vacancy) Sensor with manual override switch
Maintenance Spaces	Occupancy (vacancy) Sensor with manual override switch

Restrooms	Occupancy Sensor with manual override switch
Mech/Elec/Data rooms	Wall switches

Table 13: Lighting Control Methods by Area

SIGNAL SYSTEMS

FIRE ALARM

The Fire Alarm system will consist of a supervised addressable supervised, Class B hard wired system. Manual pull stations will be provided at each exit and exit leaving an elevated floor.

Device	Coverage
Manual pull stations	Located in the main office.
Smoke Detectors	Air handlers (>2,000CFM), Fire Smoke Dampers, Elevators lobbies, Elevator machine rooms, Elevator hoistways.
Fire Sprinkler	Tamper and Flow
Annunciation	Remote Annunciation at entry
Building Annunciation	Voice Evac and Strobe annunciation thru out the facility.
System output	Relay interface for mechanical system shut down and elevator recall.
Monitoring	Central Station Monitoring

Table 14: Fire Alarm Device Coverage

TECHNOLOGY

TELECOM SYSTEM INFRASTRUCTURE

The new Wilkes ES will be connected to the District's Wide Area Network (WAN), and a "to be determined" ISP (Internet Service Provider), where new copper and fiber will be extended from the ISP's nearest connection facility to the telecommunications equipment room (ER) located on the first floor near the SW corner of the school. The ER will house the voice, network, security and video distribution head ends for the school. The ER will also serve as a TR for the immediate area (within 90 meters) and the demarcation point for an ISP. The minimum size for the ER will be 144 sq. ft., with no wall dimension less than 12 feet long.

In addition to one ER, there will also be two telecommunication rooms (TR). These TRs will serve the rest of the school, housing voice, data and video equipment. The minimum size for a TR shall be 72 sq. ft. with no horizontal wall less than 8 feet.

The ER and each TR will require grounding and bonding, cable tray and ladder rack that is seismically braced to meet all AHJ codes. The ER will house at least 6 freestanding telecommunications equipment racks. Each TR will house at least two equipment racks.

Cabling systems provided will be a mix of both optical and copper systems, all plenum rated. The intra-building fiber optic cable will be, at least, 12-strands of 50/125um multimode fiber. This fiber will mainly be used to connect each TR to the ER. Horizontal copper cabling will be provided using a minimum Category 6 cabling, with an exception of installing Category 6A cable to wireless access points

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

(WAP). Each work area outlet (WAO) will have a minimum of two cables installed to the faceplate. Pathways will be cable tray above the ceiling in the hallways and conduit from each WAO to within 6" of the cable tray. Maximum horizontal cable distance will by 90 meters.

Wireless access points (WAP) are also to be provided as part of the new Wilkes ES. The layout of these WAPs will be designed with maximum coverage in mind as well as following the standards within the "Telecommunications Infrastructure Standards" document, provided by NIS.

PAGING/INTERCOM SYSTEM/CLOCK SYSTEM

A paging/intercom/clock system will be designed in coordination with architectural features and RSD operational requirements. Detailed design and specifications will be coordinated with eventual system installer.

Typical school paging/intercom/clock systems consist of the ability to communicate with specific rooms/classrooms and also to communicate with the entire school at once.

ELECTRONIC SECURITY SYSTEM

An access control system will be designed per RSD standards. The project will utilize standards currently being developed on the RSD Secure Vesibule project.

Security design will incorporate CCTV, building security and access control design. Main areas of coverage will include all entry and exit points, areas where a high concentration of activity occurs, parking lots and locations that do not have direct line of sight from teachers and other admin staff. Entrances that require card reader access and panic access controls will be designed with coordination with the RSD and their designated security consultant.

AV SYSTEM

AV systems will be designed with coordination with RSD standards.

- Classrooms:A/V connections for the teacher's desk to a wall or ceiling mount projector and external audio input.
- Multipurpose Room: A/V connections to a projector with external audio.
- Conference rooms: A/V connections to a wall-mount display or projector, depending on the size of the room. Floor-boxes will also be designed as part of all conference room designs to include power connections, data connections and A/V connections.
- Gymnasium: A/V connections will be designed to support a large audience for video and audio needs.

DISTRIBUTED ANTENNA SYSTEM (DAS)

Public Safety Network (PSN) DAS will be designed to allow first responders to communicate from within the building to their dispatch location and to communicate with other responders located outside of the building.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Standard arrangement for the PSN DAS system will be to include small radiating antennas mounted throughout the school. A main donor antenna receives signals from the outside and rebroadcasts them inside the building to areas that first responder's radios may not be able to communicate with the outside world on their own (based on building materials and architecture).

PSN DAS systems require higher fire ratings for their system's cable pathways. The coax backbone cabling to the donor antenna outside requires a 2HR fire rating. The horizontal cabling for the PSN DAS require a 1HR fire rating. The PSN DAS headend equipment also require to be located within a 2HR fire rated enclosure.

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Civil – Narrative

STORM SYSTEM

There is no existing City stormwater quality facility available to accommodate the project site. The City of Fairview requires that the project's stormwater collection, conveyance, detention, treatment and disposal be located on-site with discharge to the public storm system following treatment. The project site is located in Zone 1 of the Columbia South Shore Well Field Wellhead Protection Area (CSSWHPA). Location within this zone prevents the use of on-site infiltration for stormwater disposal.

Stormwater is expected to be managed by a combination of rain gardens and/or mechanical filters for water quality. Detention will be accommodated with above grade planted swales and/or below-grade detention systems. Infiltration is not feasible due to the proximity of the drinking water wells located across the street from the project site.

Each below-grade detention system will contain Contech stormwater filter cartridges, ADS Stormtech chambers, drain rock and an impermeable liner, a sedimentation manhole, and a flow control manhole.

The buildings and roofs on the site will be treated with demonstrational rain gardens and filter cartridges. Below-grade detention facilities will be provided will be provided to minimize standing water near children.

The East parking lot will have rain gardens located in the landscape to provide water quality and detention.

Underground Detention Systems will be provided. The stormwater will be conveyed to the nearest public storm main, as follows:

DET-1 Southwest parking lot, directed off-site to 3rd Street
DET-2 Recreational area, directed off-site to Depot Street
DET-3 Northeast portion of site, directed off-site to Depot Street
DET-4 Southeast parking lot, directed off-site to 1st Street

A foundation drain will provided at all structures and connected to storm system.

GRADING / EARTHWORK

Contractor to include costs for clearing and grubbing of all existing pervious areas (lawn, planters, landscaped areas, etc.), as well as the removal of undocumented fill materials and unsuitable soils, per the recommendations of the geotechnical report.

The existing building basement can be abandoned in place. Contractor to remove all vertical wall structures down to 4 feet below finished grade, and fracture basement floor slab into a maximum size of 12-inches. Backfill with compacted structural fill.

SCHEMATIC DESIGN

Civil – Narrative

The two existing drywells shall be abandoned and decommissioned in place, in accordance with state plumbing codes. Contractor to remove drywell structure to a depth of 4 feet below finished grade and backfill with pea-gravel.

SANITARY SYSTEM

A new 8-inch Sanitary sewer connection to Depot Street is proposed. The size of this sanitary line will be confirmed with the plumbing engineer as design advances.

A grease interceptor will be provide just outside the kitchen and will need to be vented through the building. This will need to be coordinated with plumbing and city requirements.

SS-1 – Sanitary Sewer connection to building
GIS-1 – Grease Interceptor for kitchen waste.

DOMESTIC AND FIRE SPRINKLER

A 3 inch domestic water and 6 inch fire sprinkler are assumed service sizes for this building but will need to be confirmed by plumbing. There is an 8" ductile iron water service located on Main Street. The City of Fairview is the water provider.

The water meter need to be located in the Right of Way and the backwater valves for fire sprinkler and domestic water will be located in accessible vaults on the property adjacent to the property line. The fire department connection (FDC) will be located at the fire back flow vault. Irrigation will need to be coordinated with the District and Landscape but will need its own backwater valve located on the site. On site fire hydrants are required at the site perimeter.

WM – 3-inch water meter.
FS – 6-inch Fire Service vault
BWV – Domestic Back Water Vault

GAS SERVICE

Gas service can be provided from Depot Street. The current building is served by a 2" gas line.

GAS – Gas Service to building.

PUBLIC FRONTAGE IMPROVEMENTS

The street frontages on all 4 sides of the site will need half street improvements. Extents of this scope were clarified and confirmed during the pre-application process with the City of Fairview and include the following:

Main, First, and Depot Streets (60 ft. Right of Way) Cross-section Requirements:
- Two (2) 11-foot travel lanes
- Two (2) 8-foot parking lanes
- Two (2) 5-foot sidewalks
- Two (2) 5-foot minimum vegetative strips

SCHEMATIC DESIGN

Civil – Narrative

Third Street (50 ft. Right of Way) Cross-section Requirements:
- Two (2) 11-foot travel lanes
- Two (2) 8-foot parking lanes
- Two (2) 5-foot sidewalks
- Two (2) 1-foot minimum vegetative strips

Green streets will likely be constructed at the low elevation corners of the project site. New public street lights (ornamental, pedestrian scale) will likely be incorporated as part of the street improvements. The City has requested all current overhead utilities be undergrounded due to the site being located in the Underground Utility Overlay District

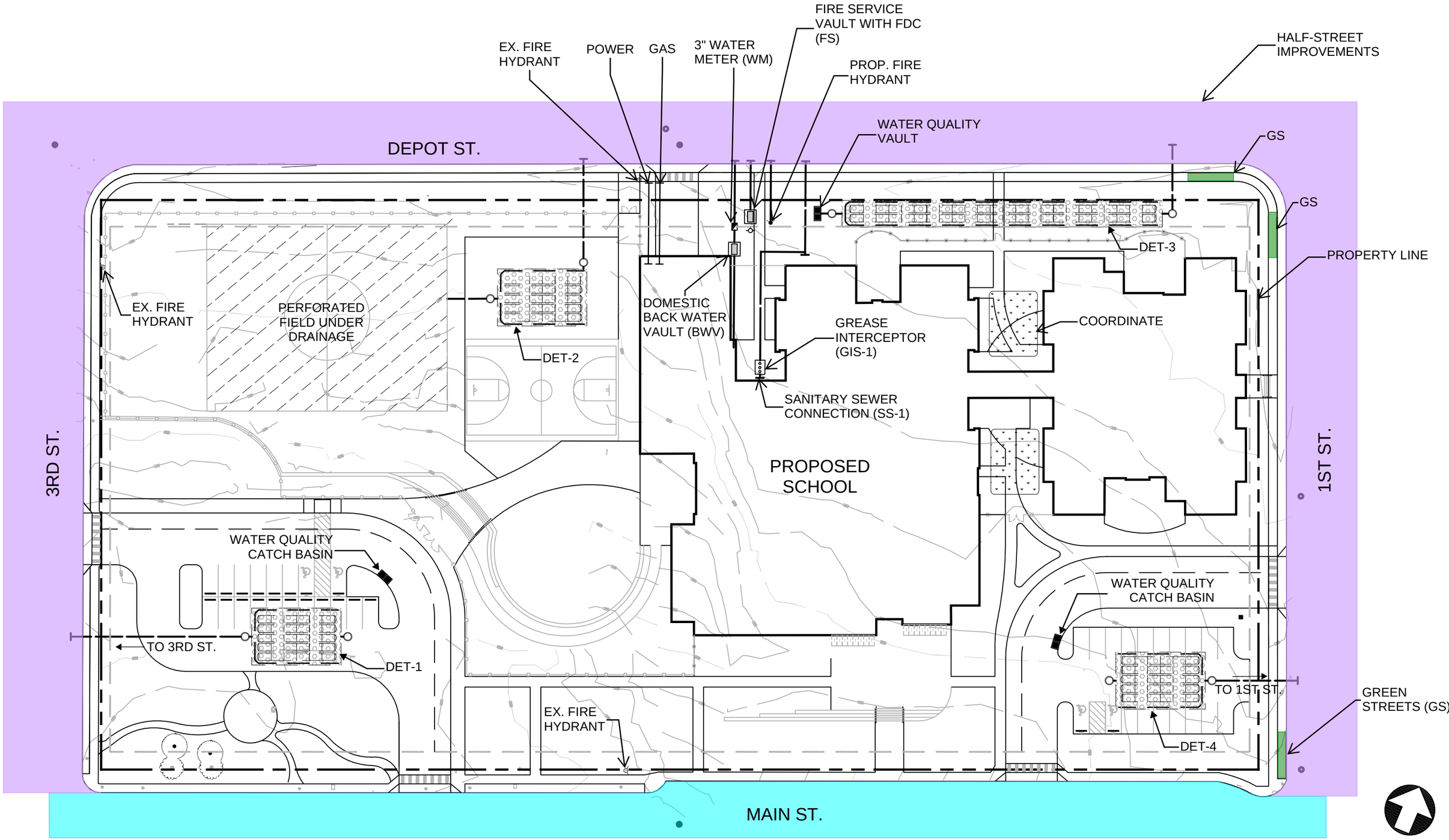
GS – Green street storm planter located at the northeastern and northwestern corners of the project site along the ROW. A public storm extension may be required for the green streets.

POWER

Power for the new school is expected to come from Depot Street to the north. A new underground power line will be run south to the transformer located in the service yard.

EROSION CONTROL

An Oregon DEQ 1200-CA (Construction Agency) Stormwater General Construction Permit will be required for this project.



FAIRVIEW ELEMENTARY SCHOOL

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Landscape – Narrative

General Approach:
The site development for this project will comply with the City of Fairview standards for development. Input and direction from the Reynolds School District representatives is also represented in the site development to date.

General Site Design Description
The site elements have been located to minimize earthwork, and utilize the site to its maximum potential. The proposed building is located in the current school's existing play field area. The existing school and modular classrooms will maintain operation during construction of the new school and adjacent parking lot. Upon completion of the new school, the existing school will be demolished and construction of the upper parking lot, bus drop off, and play areas will commence.

The new school design will preserve the large mature trees existing on the higher southeastern portion of the site. An outdoor learning/community space nestled into the mature trees will connect the public to the school grounds. The Native American marker and Missoula boulder will be educational elements within the community space. Overall site design and detailing of exterior improvements will reflect the desire to connect students with heritage.

Parent loading is located in the lower eastern parking lot adjacent to the building. Standard bus loading is located in the upper parking lot west of the building. SPED bus loading is on Main Street across from the proposed building's entry plaza. It is intended for all walks on site to be universally accessible and will not require landings or handrails (except where specifically noted). In some instances, stairs are cut into the slope for more direct access points. Service and deliveries are located on the northwest side of the building off Depot Street.

Grading
The existing site topography is substantially sloped with the highest elevations at the southwest at approximately 136' and the lowest elevations at the northeast at approximately 118'. The proposed school's finish floor elevation (FFE) will transition from 125.00' down to 120.50' to absorb the substantial grade change across the site. Site elements will generally follow the natural gradient to minimize the amount of cut and fill. Stormwater features will be located at the low points of the northeastern side of the site. New walks will not exceed a 2% cross slope. Grades will be set based on proximity to existing roadways. Balancing cut and fill will be a goal for this project. We recommend creating an allowance for cut and fill. Fill will be placed within the footprint of the basement of the existing Main Building and the lower level of the Gymnasium wing.

Landscape and Irrigation
Landscape areas will be planted with combinations of trees, shrubs, grasses, and accent plantings. The majority of the plants will be species native to Oregon or will be native "analogue" plants: plants that are adapted to similar climatic and growing conditions to native plants. The design will accommodate the mature size of the plants and trees selected and will also allow for low ongoing maintenance requirements and reduced life cycle costs. Throughout the site trees and landscape plantings will be designed to add visual interest, provide screening, create shade, and used at locations where mowing of lawns is not practical. Lawns will be seeded with a Rye Grass Fescue mix seed. Athletic fields will use a Three-way Rye Grass blend. All landscape and lawn areas will be irrigated. There are four main landscape types anticipated:

- Plant Beds: All plant beds shall have a minimum imported topsoil depth of 18" with 3" compost. All plant beds will have 3" minimum depth bark mulch. Tree plantings at parking lots to be 2.5" caliper minimum.

SCHEMATIC DESIGN

Landscape – Narrative

- New Lawns: All new lawns shall have a minimum imported topsoil depth of 12". Lawns throughout the site will be gently sloping from the south to the north.
- Turf Play Fields: All new turf fields shall be imported sandy loam type topsoil with a minimum depth of 12". Play fields to have 2 inches of compost incorporated into the top 4 inches. Turf athletic fields to have a drainage system comprised of sand channels and 2 inch pvc perforated pipe at 10 feet on center.
- Stormwater Treatment Swale: It is anticipated stormwater treatment areas will be located along the northeastern edge of the site. The treatment areas will have a minimum 18" imported specialty soil with 3" of compost till incorporated. Rock mulch will be installed at a 3" minimum depth.

It is anticipated the existing irrigation on the site will be abandoned or removed. New site irrigation will be accomplished with an automatically controlled underground system. It will be designed and constructed to be as efficient in terms of water usage as possible. The irrigation system will be centrally controlled using an automatic controller. All lawn and landscape areas will have full head to head coverage. Rotor heads will be used at large lawn areas and play fields. Spray heads will be used at plant beds and small lawns. Irrigation heads to have check valves to prevent low head drainage and pressure regulation. All zone control valves to have pressure regulation devices. A new Double Check Valve, Master Valve, and Flow Sensor will be installed. Master Valve and Flow Sensor will be sized to match the mainline. Refer to Civil for water meter and source information.

Parking and Drop-Off Areas

The parking lots will be constructed of asphaltic concrete and integral concrete curb and walks along the school-side perimeter. Curbs along parent, standard bus, and SPED bus loading will be painted yellow. Refer to Geotechnical or Civil for paving profiles. Interior parking lot landscape planters incorporating tree and shrub plantings will be required. In general landscape plantings within parking lots will be low in height. Refer to electrical for parking lot lighting.

Specific Areas of Development

Main Entrance Plaza: At the main building entrance assume 3,100 sf of specialty paving consisting of colored concrete with an acid wash finish. Furnishing will include (2) steel litter receptacles with powder coat finish. Assume one (1) 30 ft commercial grade aluminum flagpole which will be illuminated. 8 hoop style bike racks to accommodate 16 bikes will be located along the north side of the building. Bike racks to be free standing, heavy gauge steel with galvanized finish. 12" tall, 24" wide cast in place concrete seat walls will extend from stairways, holding up the grade change and creating an amphitheater style seating area.

Outdoor Learning Courtyards: Courtyards are to consist of seat walls, paving, and landscape areas conducive to outdoor learning through offering flexible environments. Assume a cumulative area of 6,150 sf of specialty paving consisting of colored concrete with an acid wash finish. Crushed quarry sand areas at path nodes create enlarged spaces for classes to gather, and waysides for smaller groups to congregate. Outdoor classroom space may consist of specialty seating, furnishings, and equipment to support math, science, and art curriculum. Water will be provided via hose bibs from the irrigation system. The central courtyard axis will contain demonstration stormwater gardens for educational purposes.

Outdoor Play Areas: Hard surface play areas will consist of asphaltic concrete paving. Pavement markings, ball wall, and basketball hoops will be installed. The soft surface play area will be surfaced

with an engineered wood fiber at a minimum depth of 16" with subgrade drainage. Play equipment will be installed within the soft surface play area.

Covered Play: Refer to Architecture.

Concrete walks and paving: All walkways and paths will consist of medium broom finish concrete (except at special paving areas in courtyards). All walks shall be universally accessible and will not require landings or handrails (except where specifically noted). Cross slopes on walks will not exceed 2%. Concrete paving will be reinforced at all areas where vehicle traffic is anticipated including the service area, entry plaza, and outdoor play area. Refer to Geotechnical and Civil for paving profiles.

Retaining Walls: Landscape planter walls and seat walls will be formed cast in place (CIP) concrete. All walls shall have 4" perforated drain pipe and shall be damp proofed below the finish grade of the soil. All CIP concrete walls shall be treated with Degussa Protectosil. All walls located in public areas shall be skateboard-proof. Assume walls will have a grout rubbed finish. A 12-inch wide reinforced concrete mow strip will be located where new lawns abut vertical surfaces including building walls, signs, benches or other fixed exterior elements.

Service Area: A service area is located on the north side of the building. The service area will consist of reinforced concrete paving, an 8' tall decorative vision proof metal fence, heavy-duty metal framed rolling gates to allow vehicle and service access, and swing gates to allow pedestrian access. Evergreen landscape plantings will be installed to visually screen the service area. The service area will contain refuse and recycling containers and allow for service and delivery access.

Demolition of Existing Conditions: It is assumed that all existing structures, fences, and elements will be removed from the site. Refer to Architecture and Civil for additional demolition related to building and utilities. On site topsoil will be evaluated to determine suitability for use at lawns and potentially plant beds.

Site Fencing: All site fencing is to be black vinyl chain link fencing. The play field area fencing will have an 8' minimum height on the west side, and a 12' height on the south side. All other fencing is to be 8' in height. 20' rolling gates will perforate the fenced area west of the building to allow for fire access. All other gates shall be single or paired 4' swing gates.

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Architectural – Outline Specifications

DIVISION 2 – EXISTING CONDITIONS

Section 02 26 00 – Hazardous Materials Investigation Summary

◊ Inspection report completed by PBS Environmental & Engineering, a consultant of Reynolds School District, of the existing building to determine the presence of asbestos-containing materials (ACM). The presence of other hazardous materials is suspected and awaiting confirmation for such items as lead-containing paints (LCP), PCB-containing light ballasts and transformers, and mercury-containing fluorescent lamps.

Section 02 30 00 - Subsurface Investigation

◊ GeoDesign, Inc. performed a geotechnical engineering study on the project site to determine the subsurface conditions which may affect the construction of the project. Recommendations include:
- Conventional spread and continuous footings set 18" minimum below final exterior grade
- Slab on grade floors set on granular fill
- Footing drains at the building perimeter
- Underground utility support and backfill
- Pavement profiles

Section 02 41 16 - Structure Demolition

◊ Demolish and remove existing permanent buildings.
◊ Remove below grade construction in specified areas.
◊ Disconnect, cap or seal and remove site utilities, as required.
◊ Salvage items for reuse by Owner or for recycling.

Section 02 41 19 - Selective Structure Demolition

◊ Demolition and removal of selected portions of modular building's foundation.
◊ Remove below grade construction in specified areas.
◊ Disconnect, cap or seal and remove site utilities, as required.

Section 02 82 13 - Asbestos Abatement

◊ Section includes hazardous materials survey report: abate asbestos according to the report.
◊ Remove and dispose of asbestos containing materials (ACM's) from the structures to be demolished.

Section 02 83 13 - Lead Hazard Control Activities

◊ Section includes investigation report of lead hazard control activities.
◊ Handle building components with lead-containing paint from the demolished structures.

Section 02 84 16 – PCB-Related Activities

◊ Section includes investigation report of removal and disposal work related to polychlorinated biphenyl (PCB)-containing light ballasts and electrical transformers.
◊ Remove and dispose of PCB containing equipment from the structures to be demolished.

Section 02 84 17 – Fluorescent Lamp Removal and Disposal

- Section includes investigation report of removal and disposal work related to the removal and proper recycling/disposal of mercury-containing fluorescent lamps and mercury-containing thermostat bulbs.
- Remove and recycle mercury-containing lamps and thermostat bulbs from the structures to be demolished.

DIVISION 03 - CONCRETE

Section 03 30 00 – Cast-in-Place Concrete

Quality Assurance

- Standards
  - ACI 301 "Specifications for Structural Concrete"
  - ACI 318 "Building Code Requirements for Structural Concrete"
- Testing: Independent testing laboratory, paid for by the owner.
  - Provide minimum of 1 set, (3) cylinder test for each 100 cubic yards of concrete or any lesser proportion poured in any single day or isolated location.
- Material Standards
  - Steel Reinforcement: ASTM A 615/A 615M, Grade 60
  - Plain-Steel Welded Wire Reinforcement: ASTM A 185/A 185M
  - Portland Cement: ASTM C 150 Type I/II
  - Normal-Weight Aggregates: ASTM C 33, graded
  - Water: ASTM C 94/C 94M
- Mixtures
  - Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.

Conventional Foundation

- Continuous footing and foundations under load bearing walls.
- Spread footings under columns and other concentrated loads.

Typical Floor Slabs

- Reinforced with welded wire fabric or fibrous reinforcing. Finished with hard trowel.
- Typical Floor slab: minimum 4" thick, thickened as required at selected interior walls, floor inserts and depressions.
- Slope floor to floor drains in areas subject to frequent wetting or maintenance, where practical.
- Recessed slabs at entrance mats and mud-set ceramic tile floors.
- Where exposed, provide with clear, penetrating, siliconate type sealer/hardener (i.e., mechanical, electrical, custodial rooms).
- Seal joints and penetrations on main floor with sealant as part of radon mitigation measures

Second Floor System

- 3" concrete topping over 3" metal decking.

Mechanical Mezzanine Floor System

- 3-1/2" concrete topping over 2" metal decking where indicated in new construction.

SCHEMATIC DESIGN

Architectural – Outline Specifications

Under Slab Moisture Vapor Control

◊ Provide moisture barrier of heavy-duty minimum 15 mil polyolefin film geo-membrane with seaming tape.

Concrete Steps

◊ Exterior steps shall be poured-in-place concrete, sloped for drainage.

Concrete Walls

◊ Provide concrete walls with chamfered edges and steel reinforcing.
◊ Retaining walls

Concrete Bench Tops

◊ Provide concrete slab with steel reinforcing.

Waterstops

◊ Provide continuous resinous product designed to prevent passage of water at subgrade joints of concrete footing, foundation walls, and floors.

Section 03 35 17 – Honed Concrete Finishes

◊ Monitor and adjust slab moisture level.
◊ Moisture protection and alkalinity measures to prepare concrete substrates for application of finish flooring under the following finishes:

Section 03 30 10 – Concrete Moisture & Alkalinity Control

◊ Monitor moisture and alkalinity content of concrete substrate to receive moisture-sensitive finish, flooring, or adhesives
◊ Provide topical treatment as needed to provide suitable substrate

Section 03 35 43 – Polished Concrete Finishing

◊ Grind existing concrete floor to a Class B fine aggregate exposure with a Level Two medium gloss finish with a three-step grinding process.
  - Level Two Finish: high gloss finish process by an initial grind with 150 grit metal bonded diamonds, followed by 50 grit resin diamonds, 120 grit resin diamonds, 220 grit resin diamonds, harden/seal agent, and an 400 grit resin diamond final polish.
  - Class B – Fine Aggregate (Salt and Pepper) Finish: 1/16 inch of concrete surface removed by grinding and polishing resulting in majority of exposure displaying fine aggregate with no, or small amount of, medium aggregate at random locations
◊ Standards
  - Concrete Polishing Association of America (CPAA), www.concretepolishingassociation.com
  - ACI 302 1R-89, Guide for Concrete Floor and Slab Construction
◊ Harden/Seal Agent: Retro Plate 99 by Advanced Floor Products, Inc.
◊ Top Seal Agent: heavy-duty concrete stain repellent, RetroPel by Advanced Floor Products

Section 03 53 00 – Concrete Topping

◊ Repair Mortar: Ardex ERM Exterior Ramp Mortar, trowel-grade horizontal concrete repair mortar, Portland cement-based, polymer modified structural repair mortar with integral corrosion inhibitor. Prepare existing concrete floor slab; repair existing cracks and gaps.

◊ Concrete Floor Topping: Ardex LT-65 Lite-Tech lightweight flooring Portland Cement-based topping/fill. Fill recessed floor with lightweight fill in place of existing raised floor system to within ¼" of finished floor.
- Primer: Ardex P-51 Primer, prime prepared concrete surface to receive cement-based topping. Prime topping surface to receive self-leveling underlayment.
- Self-Leveling Concrete Topping: Ardex K-500, 55 lb. bags mixed with water and 20 quarts of expanded polystyrene beads (EPS) per bag.
- Expanded Polystyrene Beads (EPS): 1.0 lb./cu. ft.
- Self-Leveling Underlayment: Ardex K-15 Self-Leveling Underlayment Concrete, Portland cement based.
- Self-Leveling Concrete Topping: Ardex SD-T self-drying, self-leveling, no troweling, Portland cement-based topping for fast track resurfacing, smoothing or leveling of indoor concrete and certain nonporous surfaces. Use as topping for exposed concrete surfaces.

DIVISION 04 - MASONRY

Section 04 22 00 – Concrete Unit Masonry

◊ Concrete masonry units (CMU): medium weight units, running bond pattern.
◊ Ground face, decorative concrete masonry units: at Commons and Lobby consisting of ground face finishes with integral color as scheduled.
◊ Colors selected from manufacturer's full range of colors (standard and premium).
◊ Material Standards
- Concrete Masonry Units:
  - Hollow Load-Bearing Concrete Masonry Units: ASTM C 90, 1900 psi compressive strength, medium weight.
  - Size: Face dimension of 7-5/8 inches high by 15-5/8 inches long by width required for application.
  - Concrete Building Brick: ASTM C 55.
- Mortar and Grout:
  - Mortar Mix: ASTM C 270, Type S, for reinforced masonry, masonry below grade and masonry in contact with earth and ASTM C 270, Type N, for above-grade loadbearing and nonloadbearing walls and parapet walls and for interior loadbearing and nonloadbearing partitions.
  - Mortar Materials: Portland cement, ASTM C 150, Type I or II.
  - Mortar Aggregate: Natural color, ASTM C 144.
  - Grout Aggregate: ASTM C 404.
  - Hydrated Lime: ASTM C 207, Type S.
  - Color: Natural color.
- Reinforcing Steel:
  - Reinforcing Bars: ASTM A 615, Grade 60.
  - Deformed Reinforcing Wire: ASTM A 496.
- Ties and Anchors:
  - Adjustable Masonry Veneer Anchors: Screw-attached two-piece galvanized triangular or rectangular wire tie and metal anchor.

  - Screws for Steel Studs: ASTM C 954 stainless steel.
- ◊ Cavity wall insulation: see Section 07 21 00
- ◊ Masonry Sills: see Section 04 72 00
- ◊ Accessories:
  - Cellular plastic weep/vents at base and top of wall to facilitate vapor migration away from building.
  - Mortar net at base of wall (full height where wall thickness is required to match existing construction).
  - Flashing: flexible, rubberized-asphalt with stainless steel mesh
  - Nonmetallic expansion joint strips.
  - Preformed control joint gaskets.
  - Bond breaker strips.
- ◊ Precast concrete units and inserts: see Section 03 45 00

Section 04 26 13 – Masonry Veneer

- Ground Face Block Blend: ASTM C90, Grade SW, where indicated by ASTM C 216 grade requirements for applicable weathering index and exposure, Type FBS.
  - Unit Compressive Strength: 3,000 psi
  - Initial Rate of Absorption: Less than 30 g/30 sq. per ASTM C 67.
  - Surface Coating: withstand 50 cycles of freezing and thawing per ASTM C 67
  - Integral Waterproofing Admixture

Section 04 72 00 - Cast Stone Masonry

- ◊ Cast stone units complying with ASTM C 1364 using the vibrant dry tamp method.
  - Window sills

DIVISION 05 - METALS

Section 05 12 00 - Structural Steel Framing

- ◊ Comply with AISC specifications for the design, fabrication and erection of structural steel for buildings, Type FR, fully restrained with Type 1, rigid frame connections.
  - Wide Flanges: ASTM A992.
  - Other Structural Steel Shapes, Plates, and Bars: ASTM A 36.
  - Cold-Formed Steel Tubing: ASTM A 500, Grade B.
  - Steel Pipe: ASTM A 53, Type E or S, Grade B; or ASTM A 501.
  - Headed Stud-Type Shear Connectors: ASTM A 108, Grade 1015 or 1020.
  - Anchor Bolts: ASTM F-1554, Grade 36 Class 2A.
  - Unfinished Threaded Fasteners: ASTM A 307, Grade A.
  - High-Strength Threaded Fasteners: ASTM A 325 or ASTM A 490, as applicable.
- ◊ Auxiliary Materials:
  - Direct Tension Indicators: ASTM A 959.
  - Electrodes for Welding: AWS Code.
  - Structural Steel Primer Paint: SSPC - Paint 2, red lead-iron oxide, oil alkyd.
  - Cement Grout: Portland cement, sand.

SCHEMATIC DESIGN

Architectural – Outline Specifications

- Metallic Shrinkage-Resistant Grout: Premixed ferrous aggregate grouting compound.
- Nonmetallic Shrinkage-Resistant Grout: Premixed nonmetallic grouting compound, CE CRD-C621.

◊ Subgrade protection: Bitumastic treatment to any portion of steel columns, base plates and anchor bolts.
◊ Weather exposed steel fabrications: galvanized G90 coating
◊ Testing: Independent testing laboratory.
◊ Erection Tolerances: AISC standards.

Section 05 21 13 – Architectural Exposed Structural Steel (AESS)
◊ Comply with minimum requirements for Structural Steel Framing
◊ Provide architectural grade fabrication, jointing, and finishing for all exposed steel.

Section 05 21 00 - Steel Joist Framing
◊ Open web steel joists including K-series and KCS-type steel joists, long-span steel joists and joist girders. Conform to SJI specifications.

Section 05 31 00 - Steel Decking
◊ Galvanized decking typical for roof and elevated floor locations with greater than 90% recycled content.
◊ Roof Deck: 1-1/2 inch type B roof deck.
◊ Canopy Deck: 3-inch type N cellular roof deck
◊ Floor Deck: 2-inch deep type W2 composite decking.
◊ Standard acoustical deck with sound-absorbing insulation at Learning Commons, Commons, Gym, and Lobby
◊ Vulcanized, closed-cell synthetic rubber closure strips at all junctures with walls and where required for enhanced acoustical performance or smokeproof enclosure.

Section 05 40 00 - Cold Formed Metal Framing
◊ C-shaped, load bearing channel studs with steel runners blocking, lintels, clip angles, shoes, reinforcement fasteners and accessories.
- Standards: SSMA, Steel Stud Manufacturer's Association ICBO ER 4943
- Erection Tolerances: SSMA standards
- Testing: Independent testing laboratory
- Materials: Stud and Track Sections: ASTM A-653, Quality SQ, Grade 50 Class 1, Fy=50ksi

Section 05 50 00 - Metal Fabrications
◊ Miscellaneous Framing and Supports
- Fabricate from steel shapes of welded construction
- Non-Shrink Grout: Non-metallic non-shrink grout used for filling annular space adjacent to structural steel members, mounting plates, floor-mounted devices, and similar voids

◊ Interior Ladders
- Ships ladder for attic access, preassembled, aluminum with 63 degree pitch.

◊ Exterior Ladders
- Extruded aluminum tubes or channels with ribbed tread surfaces.

◊ Cast Stair Nosings

- Interior concrete stairs provided with extruded aluminum tread nosings having an integral abrasive finish.

◊ Insect Screen
- Stainless steel wire soffit vent screen, plain weave, 8 x 8 mesh count, 0..025 wire diameter, 0.100 aperture, 64% open (free) area, T-304 stainless steel per ANSI/ASTM A555-79, by STG Wire, www.wovenwire.com.

◊ Anti-Skate Fabrications: see Section 129300

Section 05 52 13 – Metal Stairs
◊ Steel framed, infilled treads
◊ Infill treads with concrete complying with Division 3 requirements.

Section 05 51 33 – Alternating Tread Stairs
◊ Steel or aluminum construction , prefabricated to fit job conditions
◊ Locate to serve mechanical rooms and other service spaces

Section 05 52 13 – Pipe and Tube Railings
◊ Steel Pipe Railings and Handrails
- Hand and guardrails to be 1-1/2" outside diameter, stainless steel piping. All exterior rails will be galvanized.

Section 05 73 00 – Decorative Metal Railing Systems
◊ Post-supported railings with wire mesh infill.
◊ Stainless steel ornamental supports.

DIVISION 06 – WOOD AND PLASTICS

Section 06 10 00 – Rough Carpentry
◊ Rough framing, plywood, plates, blocking and backing to conform to West Coast Lumber Inspection Bureau standards.
◊ Pressure treatment: where wood is in contact with concrete or masonry surfaces.
◊ Fire retardant treatment: for use in non-combustible construction.
◊ Cementitious Tile Backer Board: 1/2-inch thick cement board for ceramic tile finishes.

Section 06 16 00 – Sheathing
◊ Water resistant 5/8" gypsum board panels for application to exterior metal stud framing as a water-resistant membrane. ASTM C 1396 compliant.

Section 06 15 16 – Wood Roof Decking
◊ Minimum 1-1/2" thick, tongue and groove roof decking
◊ Finish installation with clear stain and coatings for weather exposure

Section 06 18 00 Glued-Laminated Construction
- ◊ Pre-engineered, glue-laminated wood framing members
- ◊ Architectural grade at exposed locations

Section 06 20 23 - Interior Finish Carpentry
- ◊ Architectural woodwork: conform to West Coast Lumber Inspection Bureau standards and architectural woodwork quality standards published by the American Woodwork Institute (AWI).
- ◊ Interior standing and running trim: Clear maple, select grade, complying with AWI Section 300.

Section 06 41 13 – Reclaimed Wood Products
- ◊ Salvaged wood products from selective building demolition, prior and during demolition.
- ◊ Storage and protection of reclaimed materials, maintain wood moisture content for interior materials at 8 to 13 percent.
- ◊ Shop Preparation as required to prepare materials for new use.
- ◊ Wood materials to be salvaged for reuse include, door trim, window trim, wall trim, casework, wood flooring and structural timbers.

Section 06 42 00 – Wood Paneling
- ◊ MDF paneling to be painted.
- ◊ MDO plywood: with paint finish at custodial and select storage rooms

Section 06 64 00 - Plastic Paneling
- ◊ Fiberglass Reinforced Plastic (FRP) panels: Kemlite, size, 4’ x 10’, thickness: 0.09 inches, Color: selected from manufacturer’s standard colors.

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 07 01 53 – Temporary Roofing
- ◊ Self-adhered membrane included as vapor barrier material in PVC roofing, as recommended by roofing system manufacturer as capable of performing as temporary roof.

Section 07 11 13 - Bituminous Dampproofing
- ◊ A cold-applied asphalt emulsion dampproofing will be provided on the exterior surface of all exterior concrete foundations and footings not exposed to view (no asbestos laden materials will be allowed).

Section 07 13 26 - Self-Adhering Sheet Waterproofing
- ◊ A self-adhering modified bituminous sheet waterproofing system will be provided on the exterior surface of subsurface concrete foundations and footings not exposed to view.
- ◊ Drainage Matting: Preformed 10mm thick geo-composite drainage sheet system, comprising a hollow studded polystyrene core, covered on one side with a non-woven, needle punched polypropylene filter fabric and on the other side with a smooth polymeric sheet.

Section 07 19 00 - Water Repellents

SCHEMATIC DESIGN

Architectural – Outline Specifications

- ◊ Penetrating water-repellent and anti-graffiti treatments for vertical and horizontal surfaces.
- ◊ Clear silane and siloxane blend with 600 g/L or less of VOCs, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control by PROSOCO, Inc. applied to cast concrete, precast concrete, cast stone, CMU, clay brick and natural stone.

Section 07 21 00 - Thermal Insulation

- ◊ Perimeter insulation: 2" thick extruded polystyrene provided typical from top of spread footing to top of slab and extending 2' under slab on grade, typical at all exterior walls.
- ◊ Exterior wall insulation: 3" thick continuous extruded polystyrene.
- ◊ Sound attenuation insulation: minimum 3-1/2" blankets at interior framed walls.
- ◊ Semi-rigid acoustical insulation: glass fibers faced with black mat, 3" thick at back wall behind telescoping bleachers and 2" at perforated panels.
- ◊ Concealed roof deck vapor barrier: 2 layer polyethylene film laminated to an inner reinforcing layer of nylon or polyester.
- ◊ Low-slope and vegetated-protected roof: As indicated in each section.
- ◊ Vapor Retarder:
  - CertainTeed, MemBrain permeable vapor retarder for use on the inside face of batt insulated walls.
  - Reinforced-Polyethylene Vapor Retarder with 2 outer layers of polyethylene film laminated to an inner reinforcing layer consisting of either nylon cord or polyester scrim at roofs under SBS modified bitumen roof membrane.

Section 07 21 14 – Spray-Foam Insulation

- ◊ Closed Cell Spray polyurethane foam insulation.
  - ASTM C 1029, Type II, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84
  - Minimum density of 2.0 lb/cu. ft. spray foam, Closed Cell foam
  - Thermal resistance: ASTM C518, 75 deg. mean temperature R-value per inch: minimum R-6.4 (Aged 90 days).
  - Dow Styrofoam Brand Insulation Spray Polyurethane foam Insulation- CM 2045, BASF Corporation- "Walltite", or Demilec "Heatlok Soy 200".

Section 07 26 00 - Vapor Retarders

- ◊ Wall Vapor Retarder:
  - CertainTeed, MemBrain permeable vapor retarder for use on the inside face of batt insulated walls.
  - Reinforced-Polyethylene Vapor Retarder with 2 outer layers of polyethylene film laminated to an inner reinforcing layer consisting of either nylon cord or polyester scrim at roofs under SBS modified bitumen roof membrane.

Section 07 27 13 – Vapor Permeable Self-Adhered Air Barrier

- ◊ Sheet Air Barrier: Non-permeable, bituminous, self-adhering sheet membrane installed over exterior wall sheathing where rigid insulation is installed outside of exterior wall sheathing on framed walls.

◊ Type A (adhered) as manufactured by Carlisle (CCW-705), WR Grace (Perm-a-Barrier), and Henry Co. (Blueskin SA).

Section 07 27 26 – Vapor Permeable Fluid Applied Membrane Air Barriers

◊ Fluid-applied (spray-on) membrane air barrier, vapor retarding: synthetic polymer membrane (non-permeable) continuous air barrier and liquid water drainage plane flashed to discharge to exterior incidental condensation or water penetration. Used where rigid insulation is installed on structural masonry.
◊ Type S (spray-on) as manufactured by WR Grace (Perm-a-Barrier Liquid), Henry Co. (Air-Bloc), and Rubber Polymer Corp. (Rub-R-Wall Airtight).

Section 07 41 00 – Metal Roof Panels

◊ Metal panels: for canopies.
◊ 20 gauge sheet steel, lap-seam and concealed-fasteners
◊ Restricted flatness steel sheet coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
◊ Exterior Finish: Kynar 500, 3-coat fluoropolymer

Section 07 42 13 - Metal Wall Panels

◊ Metal wall panels: for walls and soffits.
◊ 20 gauge sheet steel, lap-seam and concealed-fasteners
  - Wall: Flex Series by AEP Span, 1.2FX10-12, 2” profile, 12” panel width.
  - Soffit: Prestige Series by AEP Span, 12” panel width.
◊ Restricted flatness steel sheet coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
◊ Exterior Finish: Kynar 500, 3-coat fluoropolymer

Section 07 42 13 – Fiber Cement Panels

◊ Soffit panels: Vented, smooth-faced cement fiber reinforced panels designed for exterior use.
◊ Minimum thickness: .25”
◊ Span rating: 24” o.c.

Section 07 54 19 – Polyvinyl-Chloride Styrene (PVC) Roofing

◊ Roofing Membrane Assembly: A fully-adhered roof membrane assembly consisting of one (1) ply polyvinyl-chloride sheet base. Roof ply shall be minimum 60-mil thickness with a white surface.
  - Walkways: factory-formed product matching roof membrane with slip-resistant surface.
  - Cover board: ¼” glass-mat, water resistant substrate acceptable to roof manufacturer.
  - Roof Insulation Board: 6” closed-cell polyisocayanurate set in minimum of two staggered layers, minimum “R” value 38.0, mechanically fastened and adhered as recommended by roof manufacturer.
  - Tapered Roof Insulation Board: Factory tapered boards with minimum slope of ¼” per foot.
  - Substrate Board: ¼” glass-mat, water resistant substrate acceptable to roof manufacturer.
  - Vapor Retarder: 32-mil self-adhesive, SBS modified bitumen construction. overlapped and taped seams, or as recommended by roofing manufacturer.

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 07 55 63 – Vegetated Protected Membrane Roofing

- ◊ Roofing Membrane Assembly: A fully-integrated roof assembly consisting of single-ply roof system as the following components:
  - Pavers: Per Section 077600, Roof Pavers
  - Vegetation: Extensive or intensive per landscape requirements.
  - Growth Medium: capable of supporting specified landscape material.
  - Drainage Composite: Profiled assembly consisting of raised members providing support for top membrane layer
  - Roof Membrane: Sarnafil G476 SA, self-adhered membrane manufactured for use in green roof system
  - Separation Layer: As recommended by this roof system manufacturer.
  - Cover board: ¼" glass-mat, water resistant gypsum substrate acceptable to roof manufacturer.
  - Roof Insulation Board: 6" extruded polystyrene set in minimum of two staggered layers, minimum "R" value 38.0, mechanically fastened and adhered as recommended by roof manufacturer.
  - Tapered Roof Insulation Board: Factory-tapered boards with minimum slope of ¼" per foot to facilitate drainage (e.g., crickets)
  - Substrate Board: ¼" glass-mat, water resistant gypsum substrate acceptable to roof manufacturer.
  - Vapor Retarder: 32-mil self-adhesive, SBS modified bitumen construction. overlapped and taped seams, or as recommended by roofing manufacturer.

Section 07 62 00 - Sheet Metal Flashing and Trim

- ◊ General: field-formed and fabricated metal assemblies and exposed anchor systems with fluoropolymer finish
- ◊ Hanging gutters: 22 gauge galvanized steel with .188-inch brackets; installation similar to SMACNA Plate #20.
- ◊ Downspouts: Mill finish aluminum tube and bracket downspout assembly at view locations, ABS schedule 40, 4" diameter plastic pipe, painted finish at other exterior locations; cast iron at interior downspouts.
- ◊ Parapet Scuppers: fabricated from aluminum-zinc-alloy-coated steel, .0253-inch thick, equipped with gravel guards.
- ◊ Conductor Heads: fabricated from aluminum-zinc-alloy-coated steel, .0253-inch thick, equipped built-in overflows
- ◊ Splash Pan: fabricated from .040-inch thick aluminum.
- ◊ Roof Fabrications: aluminum-zinc-alloy-coated steel, varying thicknesses for roof-wall transitions, base flashing, counter flashing, roof penetration flashing, and roof drain flashing.
- ◊ Through wall sheet flashings: .0312-inch thick stainless steel continuous flashings for use under copings and shelf angles.
- ◊ Opening flashings: 0.0253-inch zinc-aluminum alloy-coated steel for use around wall openings, with end dams where discontinuous.
- ◊ Roof Edge Flashing: two-piece, roof edge fascia of snap-on metal; fascia cover over continuous anchor bar with integral drip edge cleat to engage fascia cover.
- ◊ Counterflashings and reglets: Manufactured units formed to provide secure interlocking of separate pieces, factory-mitered and welded corners and junctions

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 07 72 00 - Roof Accessories

- ◊ General: Corrosion-resistant metals of steel or aluminum
- ◊ Roof Curbs and equipment supports: insulated, and internally reinforced as required for load conditions, welded corner units, with integral formed mounting flange at perimeter bottom, 12" high above roof surface
- ◊ Roof Hatch: one-hand operation, galvanized steel construction, 14 gauge, insulated curb and cover, 12" tall curb, 36" x 30", with telescoping safety post, by Bilco, or equal.
- ◊ Preformed flashings: for vent stack or roof-anchored penetrations, metal flashing sleeve with integral deck flashing, extended to 12" above roof surface

Section 07 76 00 – Roof Pavers

- ◊ General: Precast concrete pavers with the following minimum characteristics:
  - ◊ Size: 24" x 24", nominal
  - ◊ Compressive strength: 8,500 psi
  - ◊ Flexural Strength: 1,100 psi
  - ◊ Water Absorption: less that 5%.
  - ◊ Density: 155 lbs./cubit foot
- ◊ Pedestals: 3/8" high EPDM pedestal system, as recommended by paver manufacturer.

Section 07 84 13 - Penetration Firestopping

- ◊ Firestop systems for penetrations through fire-resistance-rated constructions, including both empty openings and openings containing penetrating items.
- ◊ Smoke sealant as required to meet code requirements for applications to seal top of wall and through-penetrations.

Section 07 92 00 - Joint Sealants

- ◊ General: elastomeric sealants to establish and maintain water, smoke, and air tight continuous joint seals without staining or deteriorating joint substrates.
  - Interior Surfaces inside weatherproofing system: Low VOC
  - Provide joint sealers at such areas as pavement and sidewalk joints, flashing and coping joints, masonry expansion/contraction construction joints, floor joints (interior), wall joints (exterior and exterior), interior wall/ceiling joints.

Section 07 92 19 - Acoustical Joint Sealers

- ◊ General: elastomeric sealants to establish and maintain sound tight continuous joint seals without staining or deteriorating joint substrates.
  - Interior Surfaces inside weatherproofing system: Low VOC
  - Provide joint sealers at such areas as classroom walls, partitions systems to receive sound batt insulation, perimeter joints at metal frames, mechanical and electrical rooms adjacent to corridors and classrooms.

Section 07 95 00 – Expansion Control

- ◊ Exterior wall and roof expansion control systems with -25%/+75% expansion range
  - Aluminum covers with anodized finish
  - Neoprene membrane seals

- Cellular foam insulation
- Inside and outside corners

Section 07 99 50 – Commissioning of Thermal Moisture Protection Systems

◊ Per Owner's protocol and minimum code requirements
- 2014 Oregon Structural Specialty Code

DIVISION 08 – DOORS AND WINDOWS

Section 08 11 13 - Hollow Metal Doors and Frames

◊ Doors, frames and relites will be hollow metal construction with flush face joints, reinforced for heavy-duty operational conditions, and anchored to floors and walls.
- Exterior doors, other than aluminum entrances, to be manufactured from 0.053 inch thick metallic-coated steel, thermally insulated, and with vertical reinforcement to prevent distortion
- Interior doors manufactured from 0.042 inch thick cold-rolled steel fire rated as applicable.
- Frames to be manufactured from 0.053 inch thick steel, with coating to match door.
- Glazed lites: factory cut openings with stops located to prevent unauthorized removal from exterior of secured location.

Section 08 14 16 - Flush Wood Doors

◊ All interior doors will be solid staved core wood doors with a plain sliced red oak veneer, custom grade face, constructed of recycled and low-emitting materials, factory pre-finished with premium grade finish.
- All doors will be 1-3/4" thick, solid laminated core, particle board PC-5 or PC-7, except mineral core where required for fire rating.
- Life of installation warranty will be required for all doors.

Section 08 31 13 - Access Doors and Frames

◊ All access doors for mechanical and electrical systems will be galvanized metal, and fire rated where required, and lockable. Frames will be flange-type.

Section 08 33 13 - Overhead Coiling Door

◊ Overhead coiling service door, motorized, stainless steel slats, guides and hood, lockable (kitchen serving lines), Cookson Type CD10-2M, or equal.

◊ Overhead coiling counter door, motorized operation, stainless steel slats, guides and hood, lockable (kitchen scullery), Cookson Type CD10-2M, or equal.

Section 08 33 26 - Overhead Coiling Grille

◊ Overhead coiling grille, push-up operation, aluminum, anodized finish, aluminum hood, lockable (Instrument Rehearsal Room, keyboard storage).

Section 08 41 13 – Aluminum-Framed Entrances and Storefronts

◊ Exterior Storefront:
- Design based on EFCO Series 960.

SCHEMATIC DESIGN

Architectural – Outline Specifications

- Storefront framing to be 2-1/2" x 5" extruded-aluminum thermally broken curtain wall system constructed of not less than 0.062" aluminum thickness at any location for main frame and sash members; clear anodized finish.
- Entrance frames adjacent to doors to be heavy-wall type of not less than 3/16" thick wall construction. Provide non-removable stops on exterior.
- Entrance doors to be heavy-wall type of not less than 3/16" thick wall construction.

◊ Interior Storefront : Design based on EFCO Series 401

◊ Insulated Infill Panel: 1" thick insulated panel with aluminum factory finish set in glazing channel of aluminum storefront system. Panel consists of 1/8" aluminum plate each side reinforced with 1/8" fiber cement board behind plate over 5/8" polystyrene insulation sandwiched in the midsection of the panel, anodized finish on aluminum panel.

Section 08 51 13 – Aluminum Windows

◊ Exterior windows: aluminum architectural windows based on EFCO 2900 Series
- 4 1⁄2" heavy commercial Window with vertical or horizontal stacking members
- AAMA Heavy Commercial and Architectural Grade rating
- Thermally broken and constructed of not less than 0.062" aluminum thickness at any location for main frame and sash members; Kynar finish; custom color
- All windows will be fixed
- Windows shall be factory glazed with insulated units.
- Tempered glazing at Connections 1 classroom windows

Section 08 62 00 – Unit Skylights

◊ Frame: aluminum frame members, channels and caps with condensation resistance factor (CRF) of 53 or better.

◊ Finish: clear anodized

◊ Tested according to AAMA-501.1 under dynamic pressure

◊ Glazing:
- Light Transmittance: greater than 0.50
- Thermal Transmittance (U-Factor): not more than 0.65 Btu/sq.ft.
- Solar Heat Gain Coefficient: not greater than 0.7

Section 08 62 21 – Tubular Skylights

◊ Curb/frame: aluminum frame members, channels and caps with condensation resistance factor (CRF) of 53 or better.

◊ Finish: clear anodized

◊ Tested according to AAMA-501.1 under dynamic pressure

◊ Construction:
- Glazing Light Transmittance: greater than 0.50
- Thermal Transmittance (U-Factor): not more than 0.65 Btu/sq.ft.
- Solar Heat Gain Coefficient: not greater than 0.7
- Dome top, per manufacturer's standard
- Reflector tubing
- Interior Diffuser

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 08 62 00 – Unit Skylights

- ◊ Frame: aluminum frame members, channels and caps with condensation resistance factor (CRF) of 53 or better.
- ◊ Finish: clear anodized
- ◊ Tested according to AAMA-501.1 under dynamic pressure
- ◊ Glazing:
  - Light Transmittance: greater than 0.50
  - Thermal Transmittance (U-Factor): not more than 0.65 Btu/sq.ft.
  - Solar Heat Gain Coefficient: not greater than 0.7

Section 08 71 00 - Finish Hardware

- ◊ All hardware to be of heavy-duty commercial grade construction, meeting District standards and past practices.
- ◊ All hardware to be in compliance with life safety code NFPA 101 (1981); ICC/ANSI A117.1, 2009; and the Americans with Disabilities Act (ADA) Accessibility Guidelines for Building and Facilities.
- ◊ All fire rated openings will be in compliance with the NFPA Standard No. 80, 1983.
- ◊ Finish: The finish of hardware in general will be integrated into the interior color scheme.
- ◊ Locksets and panic devices will be by Sargent Manufacturing Company.
- ◊ Locks: All locks shall be mortise type with lever handles using the return end design for handicap requirements, cores by Schlage.
- ◊ Hinges: All exterior doors will receive extra heavy weight, non-ferrous hinges. Interior doors to receive three weight bearing regular weight hinges. Size according to door size and weight.
- ◊ Door closers: Norton, fully adjustable for spring power and contain separate key valves for speed, latching and back check adjustments. Closers for wood doors to be installed with through bolts.
- ◊ Kick plates: Kick plates to be installed on all self-closing doors. Plates to be 10” high and mop plate 4” high. Kick plates to be made of plastic laminate 1/8” thick and beveled on sides. Color as selected by architect.
- ◊ Door stops: Wall bumpers to be used where possible. Floor type stop only to be used where necessary. Exterior doors shall receive pipe type stops unless conflicting with foot traffic.
- ◊ Weather-stripping: All exterior doors provided with aluminum thresholds, door sweeps and weather-stripping.
- ◊ Interior doors in smoke-resistive construction to receive smoke gasketing.
- ◊ Miscellaneous: Provide one key control cabinet capable of storing 120% of keys actually used.
- ◊ Keying: Match School District system. District standard keyway “H.”
- ◊ Provide four (4) keys per room.
- ◊ Magnetic hold-opens at Corridor doors and additional locations to be determined.
- ◊ Blocking in wall at magnetic door hold-open and wall stops. Material: metal, continuous support by two (2) wall framing members.
- ◊ Electric operating locks: Building-wide centrally controlled system to enable locking of exterior doors simultaneously, integrated with card access and security system.

Section 08 80 00 - Glazing

- ◊ Interior Glazing:
  - Typical: 6 mm (¼”) thick annealed glass, clear.
  - Butt glazing: 12 mm (½”) thick annealed glass, clear.

SCHEMATIC DESIGN

Architectural – Outline Specifications

- Safety: ¼" tempered in locations where required by code.
- High-impact athletic areas: ½" fully tempered safety glass
- High security or abuse potential: 2 layers tempered, laminated, 12mm overall thickness, 0.030" interlayer
- Acoustical: 2 layers tempered, laminated, 12 mm overall thickness, 0.060" interlayer
- Glazed sectional doors: 2 layers tempered, laminated, 7mm overall thickness, 0.030" interlayer with low-e coating.

◊ Interior Glazing Channel: satin anodized U-channel 1" deep at sill and jamb, 1-1/2" deep at head with roll-in glazing gasket, by C. R. Laurence Company

◊ Exterior Glazing:
- Typical: insulated units using 1/4" glass sheets hermetically sealed around argon gas core, low-e coating, tinted or clear depending on solar orientation, tempered in locations where required by code.
- High performance glazing: High light transmittance and low solar heat gain coefficient glass at exposed south and west wall locations. Basis of design: Guardian Industries SN68
  - Visible Light Transmittance: 68
  - Winter Nighttime U-Value: 0.29
  - Summer Daytime U-Value: 0.28
  - Solar Heat Gain Coefficient: 0.38
  - Doors and Entry Glass: Tempered and laminated insulated glazing at exterior conditions and clear tempered at interior.

◊ Skylight Glazing: insulated unit with 6mm tempered outer layer, 12mm air space, 12mm laminated interior panel with a diffused white pvb interlayer, low-e coating on #2 surface, Guardian SunGuard SuperNeutral SN54 on clear glass, 60% transmittance, 0.29 U-factor, 0.34 SHGC (solar heat gain coefficient).

◊ Safety & Security Film: Basis of design product 3M Scotchshield Safety & Security window film Ultra Series "Ultra S800" shall be installed in the following typical locations;
  ◊ Main entry doors and windows into front office and entry corridor
  ◊ Any other entry doors with glass
  ◊ Any "direct path" windows from parking lots or areas of concealment
  ◊ Windows into areas with high volumes of occupancy; ie cafeteria
  ◊ Any exposed or high profile personnel

<u>Section 08 83 00 – Mirrors</u>

◊ Mirror, Abuse-Resistant: 1/4" thick, safety Type I, Class I glazing mounted to wall with a tamper-resistant method.
- Aluminum edge molding, mill finish.

<u>Section 08 90 00 – Louvers</u>

◊ Fixed, extruded-aluminum louver of heavy-duty (0.080" thickness) horizontal drainable blade construction, with high performance organic coating, equipped with insect screening and 1-inch insulated blank off panels as required.

DIVISION 09 - FINISHES

Section 09 05 61 – Floor Preparation

- ◊ Moisture protection and alkalinity measures to prepare concrete substrates for application of finish flooring under the following finishes:
- ◊ Strip foreign material and contaminants that will prevent adhesive bond.
- ◊ Monitor and adjust slab moisture level.
- ◊ Apply primer pretreatment.

Section 09 21 16 – Gypsum Board Shaft Wall Assemblies

- ◊ Interior steel framing and suspension systems for elevator shaftway

Section 09 22 16 – Non-Structural Metal Framing

- ◊ Interior steel framing and suspension systems for all supports for walls/ceilings, soffit framing and furring.
- ◊ Steel studs and runners to be standard profile, minimum 25 gauge, with allowable unsupported height as recommended by manufacturer.
- ◊ Special conditions will be accommodated at door and window openings, mechanical ducts soffits, slip-type conditions, firestopping, and resilient or 'z' channels.

Section 09 29 00 – Gypsum Board

- ◊ General: 5/8" thick, Type "X", typical at interior stud walls/soffits:
- ◊ Gypsum wallboard (ASTM C36).
- ◊ Abuse Resistant locations: Abuse-resistant gypsum wallboard.
- ◊ Wet locations: Moisture and mold resistant gypsum wallboard.
- ◊ Exterior Soffits: Exterior gypsum soffit board (ASTM C931c or M).

Section 09 30 00 - Tiling

- ◊ Public and Staff Restrooms
  - Floors: Unglazed Ceramic Mosaic Tile, 2" x 2", 1/4" thick, thinset,
  - Walls: Glazed Ceramic Tile 4 1/4" x 4-1/4", 5/16" thick, thinset
- ◊ Waterproofing:
  - Floors and shower walls: fabric-reinforced, fluid-applied waterproofing membrane
- ◊ Setting Materials:
  - Latex-modified dry-set mortar, non-sagging at walls,
  - Polymer-modified tile grout
  - Silicone grout sealer
- ◊ Accessories:
  - Thresholds: marble, beveled edges

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 09 64 66 – Wood Athletic Flooring

- Wood athletic flooring system tested by a qualified testing agency according to DIN V 18032-2 and shown to meet the following requirements:
  - Minimum shock absorption: 53 percent
  - Minimum vertical deflection: 0.09 inch
  - Maximum area of deflection: 15 percent
  - Minimum ball bounce: 90 percent
  - Range of Surface Friction: 0.5 to 0.7
- Floating floor system, 2.5" thick, of random-length northern hard maple flooring over 2-layer plywood subfloor panels on resilient pads over underlayment vapor retarder. Exposed floor shall be 25/32" thick MFMA-RL Second or better grade, 2-1/4" face width. Subfloor shall be APA rated, C-D plugged, 15/32" thick. Resilient pads per flooring manufacturer to provide DIN rating specified intended for use for basketball and volleyball. SAFE Panel 2 Floor™ by Horner Flooring Co., Inc.
- Floor finish system shall be low VOC:
  - Floor sealer: MFMA oil-based Group 1 Sealer (Hillyard 350 Wood seal)
  - Finish Coats: MFMA Group 3 Finish (Hillyard Solvent-Based 450 Gym Finish System)
  - Game Line and Marker Paint: Compatible with finish coats (Hillyard's Contender, water-based)
- Resilient base shall be molder, vented; 4" high by 3" deep.
- Perform the following moisture testing to demonstrate compliance with flooring system manufacturer and the following maximum requirements:
  - ASTM F1869 anhydrous calcium chloride test vapor emission rate: 3 lb. of water/1000 sq. ft. in 24 hours
  - ASTM F2170 relative humidity level measurement: 75 percent

Section 09 51 13 - Acoustical Panel Ceilings

- Acoustical Ceiling Panels for general areas: mineral composition ceiling panel with impact/abrasion resistant surface and antimicrobial fungicide and bacteria treatment, 24" x 48", ¾" thick, square edge, high humidity type, unless noted otherwise.
- Perforated Metal Ceiling Panels for music areas: 2' x 2', formed in 3-D patterns to set in exposed suspension grid, colors in Flat White or Silver Satin; solid metal and perforated with sound - absorbent fabric layer backer, GEOMETRIX™ by Armstrong.
  - Sound-Absorbent Fabric Layer, black, nonwoven, nonflammable, sound-absorbent material meets flamespread index of 25 or less and smoke-developed index of 50 per ASTM E 84.
- Acoustical Ceiling Panels for kitchen areas: USG, Clean Room Clima Plus (3220 and 3230), lay in panels, USDA approved, non-perforated, washable, non-vinyl face, gypsum panel substrate; LR 1 (0.85); CAC 35/40, square edge, white, 24" x 48" x 1/2".
- Suspension System: Direct hung, metal suspension system with seismic and hold-down clips, 9/16" or 15/16" grid, heavy duty grade, painted white.

Section 09 54 26 – Linear Wood Ceiling

- Solid wood strip ceiling, 5¼" wide x ¾" thick, ¾" reveals between strips, mounted on ceiling suspension system, stain and clear semi-gloss finish on wood.
- Wood species: Western Red Cedar at exterior; Pine, fir or Hemlock at interior stained to match.

SCHEMATIC DESIGN

Architectural – Outline Specifications

- ◊ Suspension System: factory finished black, with seismic struts, and anchors; black felt between strips at interior and bug screen at exterior.
- ◊ Manufacturer: Rulon Company, 9wood

Section 09 65 13 – Resilient Base and Accessories
- ◊ Wall base: Vulcanized rubber thermoset, with matching end stops and pre-formed corner units, 4" height typical, 1/8" gauge thickness, standard top set cove matte finish.
- ◊ Adhesive: water-based, low emitting interior material.
- ◊ Transition strips for various flooring materials, as required.

Section 09 65 16 - Resilient Sheet Flooring
- ◊ Sheet Rubber Flooring: Environcare by Nora Systems, Inc. in the health room.
- ◊ Sheet Rubber Flooring: Advance by Mondo, in Gym

Section 09 65 17 - Linoleum Flooring
- ◊ Linoleum Tiles: 18" x 18", 2.5 mm thick, linoleum sheet with fibrous backing, Forbo, Marmoleum, or equal. Tiles used for ease of replacement.
- ◊ Linoleum Sheet: in 78-inch rolls
- ◊ Heat welded seams
- ◊ Cove base: integral base with metal cap in wet areas
- ◊ Floor polish: protective liquid floor polish, two coats.

Section 09 68 16 - Carpeting
- ◊ Carpet Tile: CF Antron nylon fiber carpet with a fused, close-cell, vinyl cushion backing, Collins & Aikman, Crayon.
- ◊ Transitions: metal and rubber transitions to adjacent flooring materials.

Section 09 72 00 – Wallcoverings
- ◊ Vinyl Wallcovering: RJF International - Koroseal - "Interweave"
  - Total Weight Excluding Coatings: 18.07 oz./sq/yd.: vinyl weight 28 oz./lin. yd.
- ◊ Perforated Vinyl Wallcovering: RJF International - Microvented Wallcovering - Koroseal - "Interweave"

Section 09 72 11 – Digitally Printed Wallcoverings
- ◊ Vinyl Wallcovering: RJF International - Koroseal - "Interweave"
  - Total Weight Excluding Coatings: 18.07 oz./sq/yd.: vinyl weight 28 oz./lin. yd.
- Graphics: Manufacturer's applied graphic imaging process

Section 09 77 13 – Stretched Fabric Wall Systems
- ◊ Acoustical Wall Treatment (AWT): System consists of site installed and fabricated, concealed framing system with stretched fabric over acoustical batt absorption core.
- ◊ Frame System: Extruded plastic polymer; designed to friction fit and hold fabric in place by tucking fabric into a slot in a profiled track
- ◊ Standard Acoustical Core: 1 inch (25 mm) polyester or fiberglass batt, not less than NRC 0.80.
- ◊ Facing Material: plain weave, non-directional, woven polyester, by Guilford of Maine.

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 09 84 13 – Fixed Sound-Absorptive Panels

- ◊ Concealed-mount acoustical wall panels: Prefabricated units, 48" wide, factory finished, with perforated corrugated metal facing fastened to 2" wide perimeter channel frame with glass-fiber board core.
- ◊ Acoustical Wall Panels (AWP): Fabric wrapped panels over a 6-7 pcf compressed fiberglass core, 2-inches thick, tackable, formaldehyde-free, 60% recycled product, cloth or vinyl fabric finish adhered to polyester backing, LBI/Boyd, Ecocore. Single panels available up to 49" x 97".
- ◊ High Impact Acoustical Wall Panels (HIP): Impact resistant 0.063" (1/16") perforated thermoplastic sheet adhered to 1-7/8" thick, dual density fiberglass core, fiberglass facing, 4' X 8' and 4' X 4' sizes, Impact+Plus, Quiet Coordinates by CMA.

Section 09 91 13 – Exterior Painting

- ◊ General: 3 coat premium grade system consisting of primer, intermediate coat, and topcoat. All low-emitting materials.
- ◊ High contact metal surfaces (doors, frames, hand railings, bollards): Low VOC acrylic polyurethane primer plus acrylic polyurethane topcoats)
- ◊ Low contact metal surfaces (overhead conduits, steel, steel decking, canopies, flashing): Low VOC latex primer plus exterior latex topcoats)

Section 09 91 23 – Interior Painting

- ◊ General: 3 coat premium grade system consisting of primer, intermediate coat, and topcoat. All low-emitting materials.
- ◊ Typical Interior CMU Walls: Block filler/primer, interior latex, semigloss finish
- ◊ Epoxy system for CMU walls: Block filler/primer, two component, water-based epoxy, semigloss finish
- ◊ Gypsum board surfaces: latex primer, interior latex, eggshell finish.
- ◊ Plaster surfaces: Interior alkyd primer, interior latex, semigloss finsh.
- ◊ Insulation covered substrates: (pipe, duct coverings), latex primer/sealer, interior latex, eggshell finish.

Section 09 93 00 – Staining and Transparent Finishing

- ◊ Finish carpentry/interior wood trim: Semi-transparent stain with 3 coats of clear polyurethane (semi-gloss).
- ◊ Wood panel-product substrates: Semi-transparent stain with 3 coats of clear polyurethane (semi-gloss).

Section 09 96 23 – Graffiti Resistant Coatings

- ◊ General: Clear-drying, water based silicone emulsion, breathable coating which resists staining of protected surface. Provide graffiti remover for owners use.
- ◊ Exterior wall surfaces up to 10' height above grade on all exposed masonry and concrete.
- ◊ Interior Ground Face CMU: Full height on all exposed surfaces.

DIVISION 10 - SPECIALTIES

Section 10 10 00 – Visual Display Surfaces

SCHEMATIC DESIGN

Architectural – Outline Specifications

- ◊ Markerboards: wall-mounted composition panel with perimeter frame for use with felt tip liquid markers, steel sheet faced with porcelain enamel fused, matte finish. Includes marker trays, map rails, map hooks, and flag pole holders.
- ◊ Tackboards: wall-mounted, vinyl fabric faced cork sheet with fiberboard backing and frame.
- ◊ Visual display rails: narrow rail shape with cork fabric
- ◊ Tack Surfaces: vinyl impregnated cork, ¼" thick, Bulletin Board by Forbo
- ◊ Sharewall: full-wall dry erase magnetic whiteboard and projection surface.

Section 10 12 00 - Display Cases

- ◊ General: Factory-fabricated cabinet with visual display surface background and adjustable tempered glass shelves, 24" deep, built-in to wall/soffit construction.
- ◊ Entry lobby units: hinged glass doors with heavy-duty locks at front with perimeter face trim, vinyl faced tackboard assembly on back inside surface, maple veneer plywood cabinet box, tempered glass shelves, with concealed top-lighting system.
- ◊ Prefabricated units with aluminum hinged frames, 36"w x 48"h, glass shelves, by Claridge.
- ◊ Glass Showcase Hardware: Sugatsune XL-GC Series hinges and locks for custom fabricated hinged doors.

Section 10 14 00 - Signage

- ◊ General: ADA compliant system (tactile text with braille), with tamper-resistant anchorage.
- ◊ Specialty signs to include the following:
  - Exterior signs to include the following:
    - post and panel directional signs
    - entry plaque
    - accessible routes/entrances
    - dimensional letters, per elevations
  - Interior signs to include the following:
    - primary room plaques-room name and number
    - secondary room plaques- room name and number
    - restroom plaques-gender symbol, tactile name
    - maximum occupancy plaque
    - dimensional letters
    - building plaque-institutional quality, cast bronze recognition plaque
    - Slotted Panel Display Sign with aluminum tracks for holding heavy card paper or plastic sheet signs, 32"h X 60"w, divided into (5) 12"sections.

Section 10 14 63 – Electronic Readerboard

- ◊ General: LED illuminated readerboard displaying text and graphics 19.8 mm pixel pitch; Two-view display configuration, approx. size of 3'-8" high x 9'-5" wide, monochrome graphics
- ◊ Signs to include the following:
  - ◊ Pedestal Mount: 10' High, metal frame structure with sheet metal enclosure

Section 10 21 13 - Toilet Compartments

SCHEMATIC DESIGN

Architectural – Outline Specifications

- ◊ Toilet partitions: high-pressure plastic laminate (.062") finish with a phenolic core; floor anchored, overhead braced, with in-swing doors for non-accessible units, out-swing doors for accessible units. Standard-height doors.
- ◊ Shower partitions: High-pressure plastic laminate (.082) finish with phenolic core; floor anchored, overhead braced.
- ◊ Wall Brackets: heavy duty hardware.
- ◊ Accessories: equipped with privacy latch, door pull, coat hook, and door bumpers.

Section 10 21 23 – Cubicle Curtains and Tracks

- ◊ Curtain tracks and carriers: extruded aluminum track with nylon glide with hooks.
- ◊ Training room curtain: antimicrobial polyester.
- ◊ Track: ceiling-mounted, stainless steel

Section 10 22 11 – Interior Chain Link Fences and Gates

- ◊ Chain link partitioning and gate system used to subdivide storage areas and to provide security.

Section 10 22 26 – Folding Panel Partitions

- ◊ Operable, acoustical panel partition, with 16 gauge steel frame and face sheet, by Advanced Equipment Corp., Model 5MS12S11, ALPHA 'S' panel, 3-1/2" thick, type #1 track
- ◊ Sound transmission: STC 53, with bottom rubber seal.
- ◊ vinyl wall cover finish to match room finish, wall carpet above 7' AFF
- ◊ Manually-operated, single units at Stage
- ◊ Markerboards on stage side, 4'h x 16'w, 8'w with staff lines.
- ◊ Electrically-operated, continuous assembly at Gym-Commons opening

Section 10 26 00 – Corner Guards

- ◊ Corner Guards, PVC: Vertical, surface-mounted, textured, opaque-plastic, fabricated from high-impact PVC plastic, acrylic-modified vinyl sheet; with formed edges, 2" leg.
- ◊ Corner Guards, Stainless Steel: Vertical, surface-mounted, 16 gauge, #304 stainless steel, #4 stain finish, 2" leg, applied with screws.

Section 10 28 00 - Toilet, Bath, and Laundry Accessories

- ◊ General: Stainless steel prefabricated units with accessibility features and vandal-resistant where required. Contractor to install all items, and provide all items not otherwise provided by Owner.
- ◊ Owner furnished/contractor installed items:
  - toilet tissue (2 roll) dispenser
  - paper towel (roll) dispenser
  - liquid soap dispenser
  - sanitary napkin dispenser, napkin/tampon vending machine, 15 napkins/25 tampons
  - sanitary napkin disposal unit
  - seat cover dispenser: 250 cover capacity
- ◊ Contractor furnished/contractor installed items:
  - grab bar: 1-1/2" O.D., slip-resistant texture in grip area, flange-mounted, Bobrick B-5806.
  - framed mirrors (glass), Bobrick B-290, 48" x 36" at student toilets (changed from 24" x 36"), 18" x 36" at staff toilets

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 10 28 00 - Toilet, Bath, and Laundry Accessories (continued)

- heavy-duty shower curtain rod, Bobrick B-207.
- shower curtains/hooks, Bobrick 204-1 curtain hook.
- wall-mounted shower seat: L-shaped seat, phenolic or polymeric composite folding unit, anchored to wall with toggle anchors, Bobrick B-5181.
- towel hooks, Bobrick B-670, inside student showers
- coat hooks, Bobrick B-670, on doors of staff toilets and itinerant offices.
- warm air dryers: semi-recessed units, multi-function capability for hair or hand drying positions in enclosed toilet rooms and locker rooms
- fold-down changing unit: semi-recessed, fold-down changing unit, 250-lb static load capacity, semi-recessed mounting
- under-lavatory guards: antimicrobial, molded-plastic insulating pipe covering for supply and drain piping to prevent direct contact with piping, Truebro, LavGuard
- Custodial accessories:
  - mop and broom holder, 36” long, 4 holders, Bobrick B-223 x 36
  - utility shelf, stainless steel, 16” long, supported by two triangular brackets
  - paper towel (roll) dispenser

Section 10 41 00 – Emergency Access & Information Cabinets

◊ Building-Mounted Emergency Lock Box: High security key box with enhanced rust and corrosion protection mounted with recessed mounting installation, by Knox Box, model as requested by the local authority. Locate at main entry and two side gate entrances

◊ Key cabinet, metal construction, surface wall-mounted, 120-key capacity, piano hinges, five-disc tumbler cam lock, manufactured by Kekab. Located in custodians office.

Section 10 44 13 - Fire Protection Cabinets

◊ Semi-recessed, steel fire extinguisher cabinet

◊ Door Style: vertical duo panel with Tempered break glass and lock.

◊ Cabinet Finish: Satin chrome steel

Section 10 44 16 - Fire Extinguishers

◊ Fire extinguishers
- Multipurpose Dry-Chemical Type: 3-A:40-B:C, 5-lb, monoammonium phosphate-based dry chemical in enameled-steel container, in typical building areas.
- Class-K Wet-Chemical Type: UL-rated, 2-A:K, 20-lb, potassium bicarbonate-based wet chemical in stainless steel container, for kitchen and science rooms.
- Clean-Agent Type: 5-B:C, 4.75-lb, HFC blend agent in enameled-steel container, for computer and data frame rooms.

◊ Mounting brackets: wall-mounted with identification signage

Section 10 51 13 – Metal Lockers

◊ General: All-welded construction athletic lockers with welded body components, to accommodate padlocks by students, with ADA accessible features, identification plates. Handicap locks for 5% of all lockers.
- Channel formed frames, 0.060-inch sheet steel; lapped and factory welded corners.

- 3-point latching mechanism
- Hinges: three, full loop, five-knuckle type.
- Finish: high grade baked enamel finish.

◊ Storage Lockers (for kitchen staff and custodian's use): heavy duty, single tier, hasp for padlock (12"w x 72"h x 15"d)

Section 10 56 13 - Metal Storage Shelving

◊ Factory formed, field assembled, freestanding post-and-shelf metal shelving system, with height adjustable intermediate shelving, baked enamel finish.

Section 10 71 13 – Exterior Sun Control Devices

◊ Fixed, integral sunshade device consisting of horizontal blades affixed to arms, installed onto existing CMU columns, stainless steel brackets and fasteners.
◊ Prefabricated product of 6063-TC aluminum, clear anodized aluminum.
◊ Size: 17-inches wide x 10-feet long, fabricated from 1/8-inch thick aluminum plate
◊ Profile style: "Airfoil"
◊ Fasteners: Stainless steel
◊ Manufacturer: C/S Sun Controls, Construction Specialties, Inc.

Section 10 75 00 – Flagpoles

◊ Flagpole: extruded aluminum, 7" diameter, 40' high, (1) pole at main building entry

DIVISION 11 - EQUIPMENT

Section 11 24 29 – Facility Fall Protection

◊ General: safety anchor fall protection restraint system to provide for safe execution of maintenance operations, including travel restraint. Designed to accommodate low slope roof applications for either membrane or metal roofing systems.
◊ Horizontal Lifeline Fall Protection System: Complete pre-engineered multi-span flexible lifeline system consisting of end anchors, intermediate anchors, stainless steel cable, mobile attachment devices (shuttle runners, in-line fittings (tensioner, energy absorber, corner fittings, etc.)
◊ Anchors: injection molded urethane insulation with EPDM flashing seals and stainless steel or aluminum collar for anchorage to structural framing members

Section 11 31 00 – Residential Appliances

◊ General: Heavy-duty residential appliances which have an Energy Star rating.
◊ Appliances which are to be owner furnished and contractor installed include:
- Clothes washer: stacking, frontload, ADA compliant,
- Refrigerator (Teacher's Lounge): 28 cu. ft. french-door, bottom freezer.
- Refrigerator (Health Office): under counter type, 4 cu. ft., 3 shelves, ice tray.
- Ice Machine (Health Room): undercounter type, 15" wide.
- Range: (Teacher's Lounge): free-standing, 30" wide, electric, radiant burners.
- Range Hood: Broan, Model RP1 Series Pro-Style, 30", stainless steel.
- Microwave oven

- Dishwasher: ADA compliant

Section 11 40 00 – Food Service Equipment

◊ Section includes commercial Kitchen food service equipment.
◊ Equipment to be commercial grade.
◊ Manufactured and custom fabricated equipment shall comply with all Regulatory Code Requirements.
◊ Materials:

- Stainless Steel: ASTM A-240, Type 304; gauge as required. 2B finish on totally concealed surfaces; polished 150 grit finish where exposed (Number 4 finish).
- Sheet Steel: ASTM A-569 hot rolled carbon steel
- Galvanized Sheet Steel: ASTM A526; G90 Zinc Coating
- Galvanized Steel Pipe: ASTM A53 or ASTM A120, welded or seamless, schedule 40, galvanized
- Aluminum: ASTM B209B221 sheet, plate and extrusions
- Zinc Coated Steel Shapes and Angles: ASTM A-36
- Sealant: DOW 732 RTV, Sealant Specialty 100% RTV
- Sound Deadening Material: 3M#42NF Plus, Bemford 3140 water base, Mortell Sound Pack, 1/16 inch foil backed
- Cutting Boards and Table Tops
- Wood: Laminated maple
- Poly: Read Products; John Boos. Provide in sections as required to fit warewashing equipment
- Food Guard Glass: 1/4 inch laminated safety glass
- Millwork: ¾" plywood marine grade plywood (no particle board will be allowed)

◊ Whenever possible equipment shall be made portable. Those items with closed bodies shall be set on raised bases. Open base equipment shall be made with tubular stainless steel legs having sanitary gussets and bullet-shaped feet or casters.
◊ Finishes:

- Kitchen finishes are to be smooth, washable, and light in color. Flooring material shall have an abrasive slip resistant surface with cove base. If the ceiling is suspended the tiles used shall be mylar coated for cleaning. Recommended wall finish is a washable wall board wainscot material, i.e.: FRP, minimum up to 6 feet with a semi-gloss painted wall surface continuing up to the ceiling.

Stainless steel wall flashing will cover the cooking wall surfaces.Section 11 52 00 – Audio-Visual Equipment

◊ Short Throw Projector Mount: Hitachi UST 1 wall arm, compatible with projector, mounted over markerboard; OFCI
◊ Short Throw Projector: Hitachi Model CP-AW252WN, ultra-short throw projector.
◊ Large Venue Screen: motorized, front projection, matt white projection surface, black borders with remote keyed switch.

- Screen Mounting: recessed in stage soffit
- Viewing Area: 118"h x 188"w, 1.6:1 format
- Viewing Angle: 60 degrees
- Screen Drop: 60 inches
- Keyed Switch with locking cover plate.

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 11 52 13 – Projector Mount

◊ Short Throw Projector Mount: Hitachi UST 1 wall arm, compatible with projector, mounted over markerboard; OFCI

Section 11 61 43 – Stage Curtains

◊ Stage Drapery: Flame retardant treated, 100% cotton velour, special color for valance and house curtain, all other velour color black. Fullness for valance, house curtain and traveler; all other drapery flat.
- House curtain and borders
- Border curtain at light bars
- Backdrop curtain
- Side curtains on trolley and track
- Light bars

Section 11 66 23 - Gymnasium Equipment

◊ Basketball Equipment
- Two (2) main court overhead-mounted, forward folding, glass basketball backstops, breakaway goals, motor operated.
- Four (4) side court, wall-mounted, side folding, fiberglass basketball backstops, breakaway goals, height adjustable, manual operated.

◊ Volleyball Equipment
- Three (3) pair, aluminum universal height standards
- One (1) competition package
- Volleyball nets
- Storage Rack: Porter model V-825 wall rack
- Transport Cart: Porter model V-956 storage/transport cart
- Floor anchors

◊ Badminton Equipment
- Multi-height standards
- Badminton nets
- Storage rack and cart
- Floor anchors

◊ Pull-Up bars
- Wall or ceiling mounted pull-up bars.

◊ Safety Pads
- 2” thick, safety pads, puncture and tear resistant
- Special corner units for door recesses, etc.
- Graphic logo/graphics at main gym

Section 11 68 23 – Exterior Court Athletic Equipment

◊ Aluminum Backstop: galvanized, 4.5 " diameter pole; 5' extension; fan shaped aluminum backboard; heavy duty goal. Porter Athletic Equipment Company, Model #00175-340.

◊ Basketball Nets: 12-loop-mesh net, between 15 and 18 inches long.

◊ Backboard Safety Pads: extending continuously along bottom and up sides of backboard and over goal mounting and backboard supports.

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 11 70 00 – Healthcare Equipment

◊ Defibrillator Cabinet: wall, surface-mounted, alarmed cabinet with clear door window to house automated external defibrillator, audible alarm and strobe light, powered with 2 AA batteries (no AC power), 13"h x 14"w x 7"d, white with red letters, by American AED, www.americanaed.com

Section 11 80 00 – Security Equipment (Library)

◊ Entry/Exit Detection System: Theft deterrent system for interior library doorways, consisting of complete installation to detect and report unauthorized passage of library materials treated with a sensitized material. Includes pair of detection towers on either side of each library entrance. Secure, vandal-resistant mounting.

DIVISION 12 - FURNISHINGS

Section 12 21 13 – Horizontal Louver Blinds

◊ Provide aluminum horizontal blinds, 1" wide aluminum slats, baked polyester paint finish, 0.008" aluminum.
- Manual operation with lift cord and tilt wand
- Motorized operation at inaccessible locations

Section 12 24 13 – Roller Window Shades

◊ Roller shades: manual operation, chain driven, anodized aluminum valence housing
◊ Roller shades: motorized operation, at remote windows
◊ Skylight Roller shades: motorized operation
◊ Shadeband Material, PVC-free fabric
- Light filtering fabric: 8% openness factor
- Light blocking fabric: zero openness factor

Section 12 32 00 – Manufactured Wood Casework

◊ Cabinets
- Plastic laminate faced manufactured casework, lockable.
- Countertops: Plastic laminated on plywood

◊ Shelving: plastic laminate sheet, grade HGL or HGP, bonded to 3/4" plywood, with rigid PVC edge
◊ Tote Trays, ivory-colored high-impact polystyrene with nickel-plated name card-holders, size: 10-5/8"w x 18-7/8"d x 4-1/4"h.
◊ Laboratory casework: plastic laminate faced with rigid PVC edge, lockable.
- Countertops: solid epoxy resin with epoxy sinks
- Solid doors on upper and base cabinets (no glass)
- Earthquake lip on shelving

Section 12 35 00 – Music Storage Casework

◊ Plastic laminate faced manufactured casework for music storage, by Wenger Corp.
◊ Polyethylene Shelves: High-density, one-piece, blow-molded or formed, with radiused front edge, for abuse-resistant shelves.
◊ PVC Edge Banding: PVC extrusions, 3 mm thick, round edge.
◊ Grille Doors: Bright basic steel wire
◊ Casework for musical instruments according to instrument list by school & District.

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 12 48 13 - Entrance Flooring
- ◊ Walk-off mats, 100% Polymide cut pile, vinyl backing, Coral Brush Active by Forbo.
- ◊ Surface type mats adhered directly to the concrete slab.
- ◊ Mat Lengths: 12 to 16 feet minimum length

Section 12 93 00 – Site Furnishings (Landscape)
- ◊ Bicycle racks: pre-fabricated steel unit allowing double sided parking, capable of supporting 10 bikes, galvanized finish.
- ◊ Bollards: 4" diameter x 42" height, galvanized steel, schedule 80 pipe, anchored in concrete footing, with steel dome top.
- ◊ Anti-skate devices: Extruded aluminum members anchored securely and nesting onto railings, and edges of concrete site improvements.
- ◊ Concrete Benches
- ◊ Waste Receptacles: 30-gallon capacity, powder-coated finish

DIVISION 13 – SPECIAL CONSTRUCTION
- ◊ Not Used.

DIVISION 14 – CONVEYING SYSTEMS

Section 14 24 00 – Hydraulic Passenger Elevator
- ◊ Elevator: Electrically operated, machine room-less
- ◊ Model: Kone EcoSpace (basis of design)
- ◊ Rated Speed: 110 fpm
- ◊ Travel: 14 feet, 2 stops
- ◊ Rated Load: 3500 lb.
- ◊ Cab size: 6'-8" W x 5'-5-1/2" D, clear inside, sized to fit emergency gurney, 8'-0" height.
- ◊ Power: 480v, 3 phase supplied
- ◊ Finishes:
  - Floor: Rubber flooring
  - Walls: Plastic laminate panels
  - Ceiling: Stainless steel panels with LED downlight fixtures
  - Railings: Stainless steel
- ◊ Telephone connection for emergency use
- ◊ Conforms to Oregon State Accessibility regulations
- ◊ Manufacturer: Kone, Thyssen Krupp, or Otis Elevator Company

DIVISION 31 – EARTHWORK

Section 31 21 13 – Radon Mitigation
- ◊ Provide first floor subslab ventilation chamber constructed as follows:

SCHEMATIC DESIGN

Architectural – Outline Specifications

- ◊ Geotextile fabric over compacted subgrade
- ◊ 6” of aggregate, passing #5 sieve (1”-1/2”) with no fines
- ◊ Soil Gas Retarder membrane: 10 mil polyethylene with minimum perm rating of .3, with minimal lapped seams
- ◊ Seal slab joints and penetrations
- ◊ Coordinate placement of subslab soil exhaust discharge ventilation piping up through roof

END OF ARCHITECTURAL OUTLINE SPECIFICATIONS

	Space Type	Exter.		Floors											Base			Walls						Wainsc't			Wall Mtd. Panels						Exposed Structu					Ceiling Panels				
	* Vinyl Walcovering o/ DW @ interior walls only.	Outdoor Pavers	Outdoor Entry Walk off Grille	Concrete w/Sealer	Concrete Polished	Carpet	Resilient Floor	Wood Athletic Floor	Ceramic Tile	Aaltro	Concrete Deck	Entry Mat	Rubber Stair Treads		Tile	Resilient	Aaltro	Painted Drywall	Painted CMU	Fiberg'lss Reinf Pnls on D.W.	Vinyl Wallcovering on D.W *	Digital Wall Covering on D.W	Grnd-face CMU Blend (Seaec		MDF Painted over D.W.	Ceramic Tile on Cement Bd.		25% Acoustical Wall Panels	Gym Padding	Sharewall	Environmental Graphics				Painted Steel Deck/Structure	Painted Acous. Deck/Struct.	Wood Deck/Glue Lams	Painted Acoustic/Floor Deck	Unpainted Steel Deck		Susp. Acoustical Panel	50% Wood Panels	50% Acoustic Clouds	Painted Drywall	Painted Drywall Soffit/Blkhd.
Academic Spaces	Kindergarten Studios					80	20									✓		✓			✓								✓										✓				✓
	Learning Studios 1-5						✓									✓		✓			✓								✓										✓				✓
	Special Ed Learning Studios						✓									✓		✓			✓								✓										✓				✓
	Learning Commons				✓											✓		✓			✓								✓					✓							✓		
	Music/Stage						✓									✓		✓			✓			✓					✓					✓						✓			
	Flex Learning Studio				✓											✓		✓			✓								✓										✓				✓
	Gymnasium							✓								✓			✓									✓						✓									
	Commons						✓									✓		✓					✓	✓				✓			✓			✓						✓				
	Media Center					✓										✓		✓			✓	✓		✓				✓			✓			✓						✓				
Admin	Administrative/Offices					✓										✓		✓																					✓				
	Small Group					✓										✓		✓																					✓				
	Staff Room					✓										✓		✓																					✓				
Circulation	Main Lobby				✓											✓		✓				✓	✓							✓					✓						✓		
	Primary Corridors				✓											✓		✓			✓	✓		✓						✓				✓					✓	✓			
	Stairs												✓			✓		✓						✓						✓				✓					✓				
	Secondary Hallways						✓									✓		✓																					✓				
	Vestibule		✓									✓				✓		✓	✓					✓						✓				✓					✓				
Support Spaces	Kitchen									✓							✓			✓																		✓				
	Group Toilets								✓						✓			✓							✓																	✓		
	Individual Toilets								✓						✓			✓							✓																	✓		
	Storage			✓												✓								✓																	✓		
	Utility / Janitor Rooms			✓												✓				✓				✓																	✓		
	MDF/IDF/Computer Carts			✓												✓								✓																	✓		
	Mechanical Rooms			✓												✓			✓																				✓				
	Main Entry Canopy																																		✓								
	Bus Walkway Canopy																																✓									
	Covered Play Structure																																✓									
	Outdoor Learning		✓																														✓									
	Outdoor Learning Roof Decks	✓																															✓									
	Shipping / Receiving			✓												✓				✓				✓																	✓		

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

MEP – Outline Specifications

DIVISION 21 – FIRE PROTECTION

Section 21 05 00 – Common Work Results for Fire Suppression Systems
- ◊ General: Section includes specific contractual requirements for the design-build fire protection contractor, including shop drawings, submittals, O&M's, change orders, alternates, warranty, coordination with other trades, and general installation requirements.

Section 21 10 00 - Water Based Fire Suppression Systems
- ◊ General: Section includes wet pipe, dry pipe, fire protection system products and accessories.

DIVISION 22 – PLUMBING

Section 22 05 00 – Common Work Results for Plumbing
- ◊ General: Section includes specific contractual requirements for the plumbing contractor, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 22 05 18 - Plumbing Expansion Compensation
- ◊ General: Section includes stress analysis calculations, expansion joints/loops and compensators.

Section 22 05 19 - Meters and Gauges for Plumbing
- ◊ General: Section includes thermometers, pressure gauges and water meters.

Section 22 05 23 - General Duty Valves and Specialties for Plumbing
- ◊ General: Section includes service valves (gate, globe, ball, butterfly), check valves, balance valves, specialty valves (gas, etc.), pressure reducing valves, system specialties, relief valves and strainers.

Section 22 05 29 - Hangers, Supports, and Anchors Plumbing
- ◊ General: Section includes delegated design for supports, anchorage and restraint. Products include supports, pipe attachments, rollers/shields/saddles, and building attachments.

Section 22 05 48 - Vibration and Seismic Controls for Plumbing Piping and Equipment
- ◊ General: Section includes vibration isolation attachment products and seismic restraint between plumbing piping/equipment and the building.

Section 22 05 53 - Identification for Plumbing Piping and Equipment
- ◊ General: Section includes identification materials and labels for plumbing valves, piping, and equipment.

Section 22 05 90 - Pressure Testing for Plumbing Systems
- ◊ General: Section includes pressure testing for plumbing piping (sanitary and roof drainage, domestic hot/cold, natural gas).

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 22 05 93 - Testing, Adjusting, and Balancing for Plumbing
- ◊ General: Section includes testing, adjusting and balancing of domestic hot water recirculation systems and mixing valves.

Section 22 07 00 - Insulation for Plumbing
- ◊ General: Section includes plumbing pipe insulation, acoustical wrap and insulation accessories for piping.

Section 22 08 00 - Commissioning for Plumbing
- ◊ General: Section includes startup and testing requirements for the plumbing system equipment and piping.

Section 22 21 13 - Pipe and Pipe Fittings Plumbing
- ◊ General: Section includes pipe, pipe couplings and fittings for domestic hot/cold, sanitary waste/vent, storm, and natural gas.

Section 22 21 23 - Pumps for Plumbing
- ◊ General: Section includes in-line circulating pumps, and sump pumps.

Section 22 25 00 - Plumbing Water Treatment
- ◊ General: Section includes water treatment products and procedures for domestic water piping.

Section 22 30 00 - Plumbing Equipment
- ◊ General: Section includes electric and gas water heaters and storage tanks, backflow preventers, heat trace cabling, and expansion tanks.

Section 22 40 00 - Plumbing Fixtures
- ◊ General: Section includes plumbing fixtures (water closets, urinals, lavatories, sinks, mop sinks, showers, drinking fountains, mixing valves), emergency fixtures, drainage products (hose bibbs, roof/overflow drains, floor drains/sinks, cleanouts, trap primers, grease interceptors, etc.).

DIVISION 23 – HVAC

Section 23 05 00 – Common Work Results for HVAC
- ◊ General: Section includes specific contractual requirements for the mechanical contractor, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 23 05 14 -Variable Frequency Drives for HVAC Equipment
- ◊ General: Section includes VFD's for HVAC fans/pumps.

Section 23 05 18 - HVAC Expansion Compensation
- ◊ General: Section includes stress analysis calculations, expansion joints/loops and compensators.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 05 19 - Meters and Gauges for HVAC

- ◊ General: Section includes thermometers, pressure gauges, differential pressure gauges, and water meters.

Section 23 05 23 - General Duty Valves and Specialties for HVAC

- ◊ General: Section includes service valves (gate, globe, ball, butterfly), check valves, balance/control valves, specialty valves, system specialties, expansion tanks, air separators, relief valves, strainers, and suction diffusers.

Section 23 05 29 - Hangers, Supports, and Anchors for HVAC

- ◊ General: Section includes delegated design for supports, anchorage and restraint. Products include supports, pipe attachments, rollers/shields/saddles, and building attachments.

Section 23 05 48 - Vibration and Seismic Controls for HVAC Piping and Equipment

- ◊ General: Section includes vibration isolation attachment products and seismic restraint between HVAC piping/equipment and the building.

Section 23 05 53 - Identification for HVAC Piping and Equipment

- ◊ General: Section includes identification materials and labels for HVAC valves, piping, and equipment.

Section 23 05 90 - Pressure Testing for HVAC Systems

- ◊ General: Section includes pressure testing for ductwork, and HVAC piping (chilled water, heating water, refrigerant piping).

Section 23 05 93 - Testing, Adjusting, and Balancing for HVAC

- ◊ General: Section includes testing, adjusting and balancing of Air Systems (fans, diffusers/grilles, etc.), Hydronic Systems (pumps, coils, etc.), and Electric Heating Systems.

Section 23 07 00 - Insulation for HVAC

- ◊ General: Section includes HVAC pipe and duct insulation, acoustical wrap and insulation accessories.

Section 23 08 00 - Commissioning for HVAC

- ◊ General: Section includes startup and testing requirements for the HVAC system equipment and distribution components.

Section 23 09 00 - Instrumentation and Controls for HVAC

- ◊ General: Section includes a design-build Building Management System (BMS) for control and monitoring of HVAC systems and energy metering.

Section 23 09 93 - Sequence of Operations for HVAC Controls

- ◊ General: Section includes sequences of operation for HVAC equipment.

Section 23 21 13 - Pipe and Pipe Fittings HVAC

- ◊ General: Section includes pipe, pipe couplings and fittings for heating and chilled water piping.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 21 23 - Pumps for HVAC Systems
- ◊ General: Section includes base mounted and in-line centrifugal pumps.

Section 23 25 00 - HVAC Water Treatment
- ◊ General: Section includes water treatment products and procedures for closed loop heating and chilled water piping system.

Section 23 31 01 - HVAC Ducts and Casing-Low Pressure
- ◊ General: Section includes sheet metal ductwork for low pressure air systems.

Section 23 31 02 - HVAC Ducts and Casing-Medium Pressure
- ◊ General: Section includes sheet metal ductwork for medium pressure air systems.

Section 23 33 00 - Air Duct Accessories
- ◊ General: Section includes air duct accessories for low and medium pressure air systems (sealer, dampers, flexible connectors, turning vanes, access doors, fittings, fire and smoke dampers).

Section 23 34 00 - HVAC Fans
- ◊ General: Section includes roof fans, roof vents, and inline/cabinet fans.

Section 23 36 00 - Air Terminal Units
- ◊ General: Section includes single duct terminal units.

Section 23 37 00 - Air Outlets and Inlets
- ◊ General: Section includes diffusers and grilles for air distribution systems.

Section 23 40 00 - HVAC Air Cleaning Devices
- ◊ General: Section includes medium and high efficiency air filters.

Section 23 51 00 - Breechings, Chimneys, and Stacks
- ◊ General: Section includes condensing boiler and water heater breechings and stacks

Section 23 52 00 - Heating Boilers
- ◊ General: Section includes natural gas fired condensing boilers.

Section 23 55 00 - Fuel Fired Heaters
- ◊ General: Section includes gas fired make-up air units for kitchen hoods.

Section 23 57 00 - Heat Exchangers
- ◊ General: Section includes flat plate type water-to-water heat exchangers for chilled water glycol loop isolation/freeze protection.

Section 23 70 00 - Central HVAC Equipment
- ◊ General: Section includes custom/semi-custom indoor and outdoor air handling units.

Section 23 72 00 - Air to Air Energy Recovery Units
- ◊ General: Section includes air to air heat recovery units.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 81 00 - Decentralized Unitary HVAC

◊ General: Section includes packaged rooftop HVAC units, split-systems air-conditioning units, and variable refrigerant flow (VRF) systems.

Section 23 82 00 - Convection Heating and Cooling Units

◊ General: Section includes hydronic heating and chilled water coils, refrigerant coils, fan coil units, finned tube radiators, unit heaters, convectors, cabinet unit heaters, and radiant panels.

Section 23 83 16 - Radiant-Heating Hydronic Piping

◊ General: Section includes radiant in-slab PEX piping/couplings and manifolds.

Section 23 84 10 - Electric Heating Equipment

◊ General: Section includes electric duct heaters, unit heaters, cabinet unit heaters, wall heaters, radiant cove heaters, and heat trace cabling.

DIVISION 26 – ELECTRICAL

Section 26 05 00 – Common Work Results for Electrical

◊ General: Section includes specific contractual requirements for the electrical contractor, including shop drawings, submittals, O&M's, change order, alternates, firstopping, warranty, coordination with other trades, and general installation requirements.

Section 26 05 19 - Low Voltage Electrical Power Conductors and Cables

◊ General: Section includes conductors and splicing materials for low voltage power distribution (under 600 volts).

Section 26 05 26 - Grounding and Bonding for Electrical Systems

◊ General: Section include the power system grounding requirement and materials.

Section 26 05 29 - Hangers and Supports for Electrical Systems

◊ General: Section includes hanger and support for conduit system, equipment, cable tray and seismic requirement for equipment.

Section 26 05 33 - Raceways and Boxes for Electrical Systems

◊ General: Section include the different types of conduit raceway and fitting allowed and installation methods, and floor boxes.

Section 26 05 36 - Cable Trays for Electrical Systems

◊ General: Section include ladder cable tray systems to use for telecom cabling organization and routing.

Section 26 05 43 - Underground Ducts and Raceways

◊ General: Section include vaults and conduits for exterior underground construction.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 26 05 53 - Identification for Electrical Systems

- General: Section include all identification materials and labels for conduits, wiring, electrical and mechanical equipment and receptacles.

Section 26 05 73 - Overcurrent Protective Device Coordination Study

- General: Section include a circuit breaker coordination study and recommended setting, which is done by the contractor as a deferred submittal. The circuit breaker coordination study is code required for the emergency system.

Section 26 09 23 - Lighting Control Devices

- General: Section includes devices for daylighting lighting dimming control.

Section 26 09 43 - Network Lighting Controls

- General: Section include the lighting timeclock control system, which is required by the Oregon energy code.

Section 26 22 00 - Low Voltage Transformers

- General: Section include dry type low voltage transformers for conversion of 480vac to 208vac.

Section 26 24 13 – Switchboards

- General: Section include the distribution panel and equipment for the main incoming power service panel and sub-distribution.

Section 26 24 16 – Panelboards

- General: Section includes branch panelboards (circuit breaker panels) for both the 480 and 208vac systems, to be used for lighting and receptacle circuiting.

Section 26 27 26 - Wiring Devices

- General: Section includes, lighting switches, power receptacles, and associated cover plates and occupancy sensors.

Section 26 29 00 - Motor Controllers

- General: Section includes, motor starters, disconnect switches, and elevator power modules.

Section 26 32 13 - Engine Generators

- General: Section includes an exterior diesel engine power generator system and associated weatherproof housing and fuel tank.

Section 26 33 53 - Static Uninterruptible Power Supply System

- General: Section include UPS units for use as battery backup system for telecom systems.

Section 26 36 23 - Automatic Transfer Switches

- General: Section Includes ATS switch for use in switching from a normal power source to an generator power source.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 26 43 13 - Surge Protection devices

- General: Section include a power voltage surge suppression device, device will be used on the main incoming power service.

Section 26 50 00 - Lighting

- General: Section includes materials and installation for interior and exterior lighting products, including, lamps, drivers, ballasts and fixtures.

DIVISION 27 – COMMUNICATIONS

Section 27 05 00 - Common Work Results for Communications

- General: Section includes specific contractual requirements for the technology contractor, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 27 05 26 - Grounding and Bonding for Communication Systems

- General: Section includes grounding requirements specific for the telecom systems and raceways and telecom room equipment.

Section 27 05 28 - Pathways for Communication Systems

- General: Section includes specific requirement for raceway, conduits and cable tray system oto be used for telecom system.

Section 27 08 00 - Commissioning of Communications

- General: Section include the startup and testing requirements for the telecom system equipment and cabling.

Section 27 11 00 - Communications Equipment Room Fittings

- General: Section Includes telecom room equipment, racks, plywood backboards, ladder runway, fireproof wall sleeves.

Section 27 11 19 - Communications Termination Blocks and Patch Panels

- General: Section Include the patch panel and termination blocks for the termination of copper telecom cabling.

Section 27 13 00 - Communications Backbone Cabling

- General: Section includes fiber and copper cabling type for the telecom infrastructure distribution system.

Section 27 15 00 - Communications Horizontal Cabling

- General: Section Includes the CAT cabling and data outlet, jacks, and cover plates.

Section 27 41 16 - Integrated Audio-Video Systems and Equipment

◊ General: Section includes A/V system products, including, floor boxes, equipment racks, control systems, displays, conferencing equipment, projector, projector screens, microphones and wiring.

Section 27 51 16 - Public Address Systems

◊ General: Section includes products and installation for building wide paging system, including system speakers, amplifiers, and wiring.

Section 27 53 19 - Internal Cellular, Paging, and Antenna Systems

◊ General: Section includes a distributed antenna system (DAS) products and installation for an emergency responder communications system within the building.

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

Section 28 05 00 - Common Work Results for Electronic Safety and Security

◊ General Section includes specific contractual requirements for the access controls, video surveillance and fire alarm system contractors, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 28 05 13 - Conductors and Cables for Electronic Safety and Security

◊ General: Section includes conductor and cabling for the access control, video surveillance and fire alarm system.

Section 28 13 00 - Access Control

◊ General: Section includes equipment for access controls, including, door locks, door access identification pads, pushbutton stations, motion sensors, badging ID, cabling and control panels.

Section 28 23 00 - Video Surveillance

◊ General: Section includes video surveillance cameras, camera housings, power supplies, video recorders and cabling.

Section 28 30 00 - Fire Detection and Alarm

◊ General: Section includes a fire alarm system, control panel, remote annunciator, smoke detectors, pull stations, strobes and horn/strobes, tamper and flow switches.

Fairview Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Landscape Architecture – Outline Specifications

DIVISION 01 – GENERAL REQUIREMENTS

Section 01 56 39 – Temporary Tree and Plant Protection

◊ Defines fencing and practices to protect zones around trees and plant materials to remain.

DIVISION 12 – SITE FURNISHINGS

Section 12 93 00 – Site Furnishings

◊ Applies to benches, planters, trash & recycling receptacles, bicycle racks (steel), bollards (pipe, concrete at drop off, or areas to be determined), and other related equipment the Owner requires to be on the school grounds.

DIVISION 32 – EXTERIOR IMPROVEMENTS

Section 32 18 16 – Recreational Equipment

◊ Describes play equipment products the Owner requests for playgrounds.

Section 32 18 40 – Playground Surfacing

◊ Playground soft surface play areas to be rubber tiles over a concrete sub-base.

Section 32 31 13 – Chain Link Fences and Gates

◊ Describes colors, finishes, and heights of chain link fencing and gates on site.

Section 32 80 00 – Irrigation

◊ Describes valves, heads, and all other irrigation components needed to create a fully automatic water efficient system.

Section 32 90 00 – Planting

◊ All disturbed areas shall be planted or seeded.

◊ Planted areas shall be kept properly watered at all times until final acceptance.

◊ Possible species include non-toxic plants, natives & drought tolerant plants that do not include berries or thorns.

◊ Provide a (2) year Maintenance Agreement for landscape work starting at final completion. This is separate from the warranty period work.

◊ Topsoil for planting beds shall be 18 inch depth

SCHEMATIC DESIGN

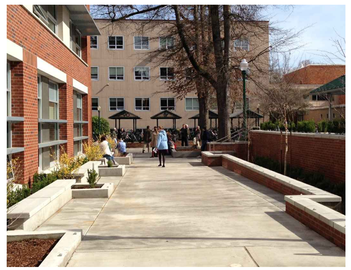
Landscape Architecture – Outline Specifications

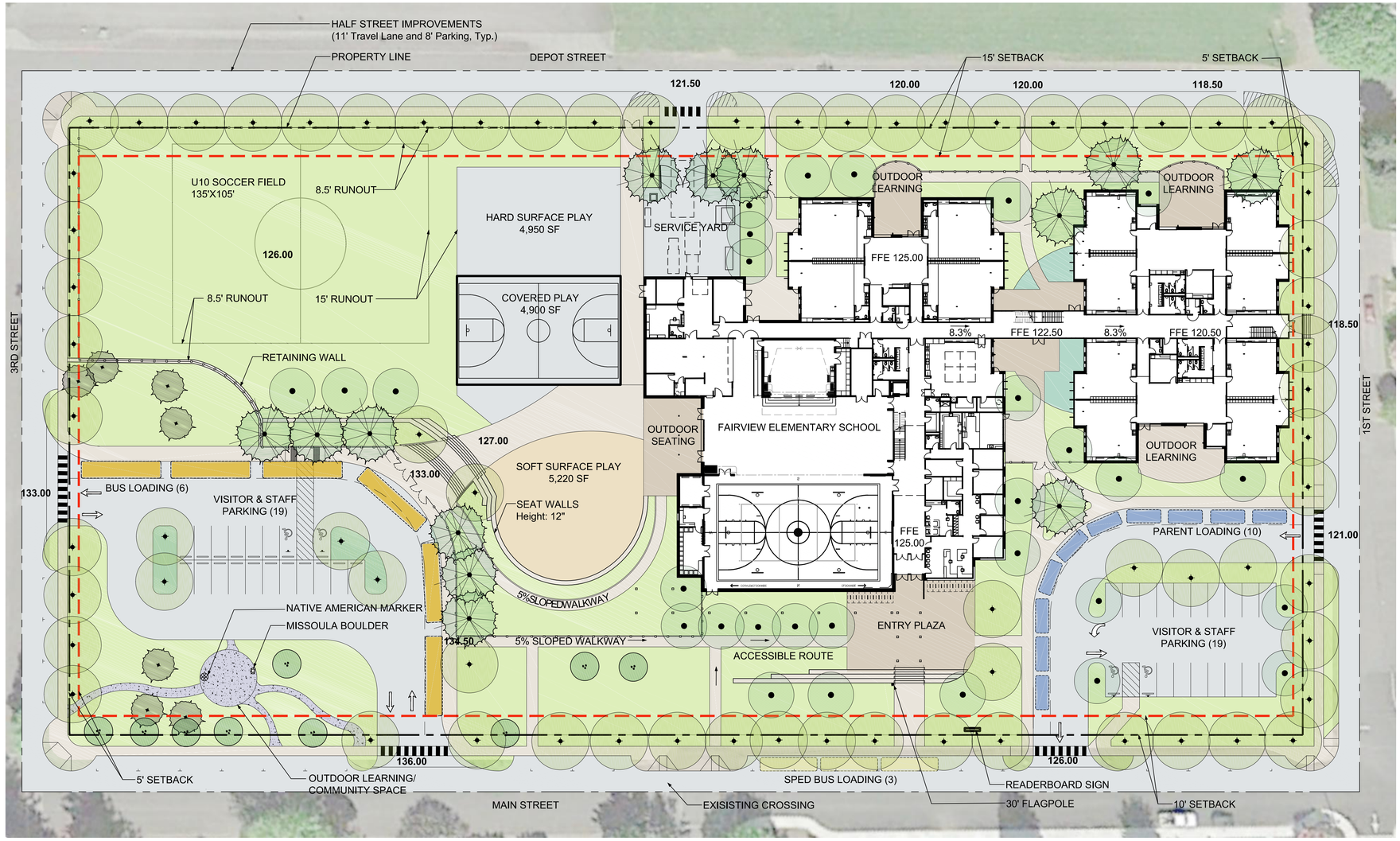
◊ Topsoil for lawns shall be 8 inch depth.

INSPIRATIONAL IMAGES







OFF-STREET PARKING TABULATIONS

PERMANENT PARKING: 57 SPACES
PARENT LOADING: 10 SPACES
BIKE PARKING: 32 SPACES

LEGEND

- PROPERTY LINE
- SETBACK
- FENCE
- SCHOOL BUS
- SPED BUS
- PARENT VEHICLE
- ASPHALT PAVING
  4" AC over 10" of base course.
  See Civil.
- CONCRETE PAVING
  4" over 4" of base course.
  See Civil.
- SOFT SURFACE PLAY AREA
- SPECIAL PAVING AREAS
- PLANT BED/LAWN
- STORMWATER TREATMENT AREA
- DECOMPOSED GRANITE
- PROPOSED TREE
- EXISTING TREE
- BIKE PARKING
- MISSOULA BOULDER
- NATIVE AMERICAN MARKER

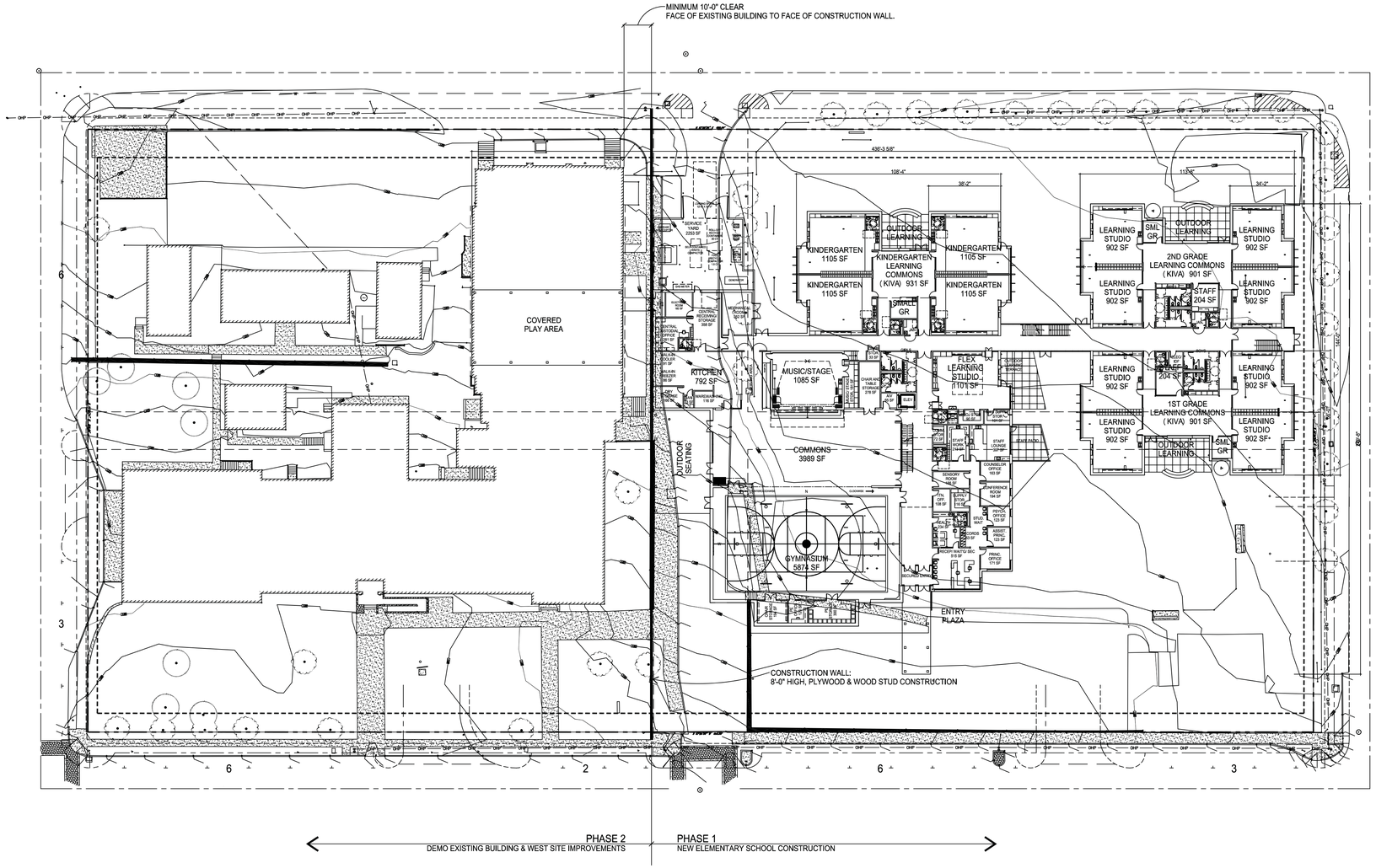
0' 30' 60'

Fairview ES Site Plan

Reynolds School District

CAMERON McCARTHY LANDSCAPE ARCHITECTURE & PLANNING

BLRB architects



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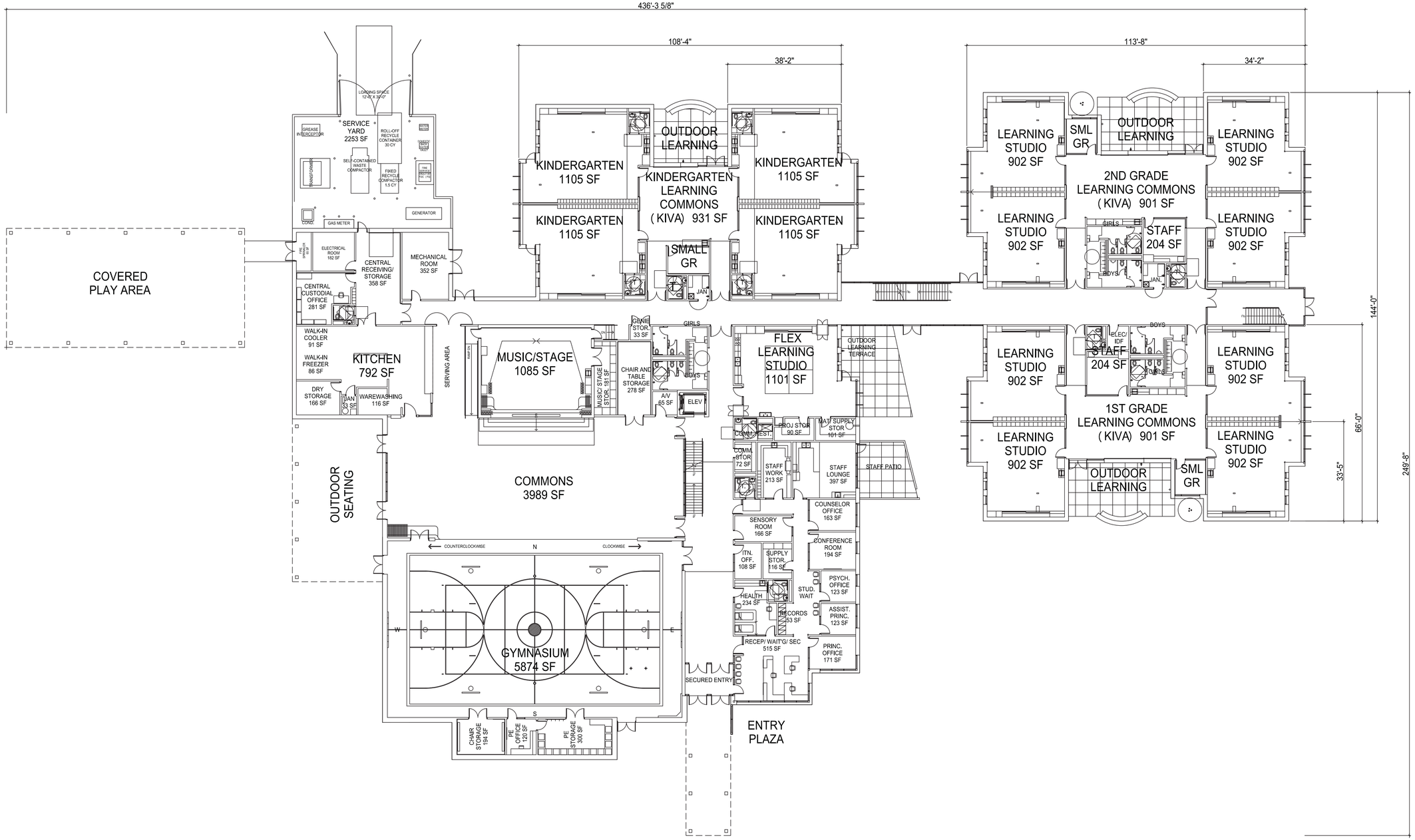
Reynolds School District

Demolition / Phasing Plan

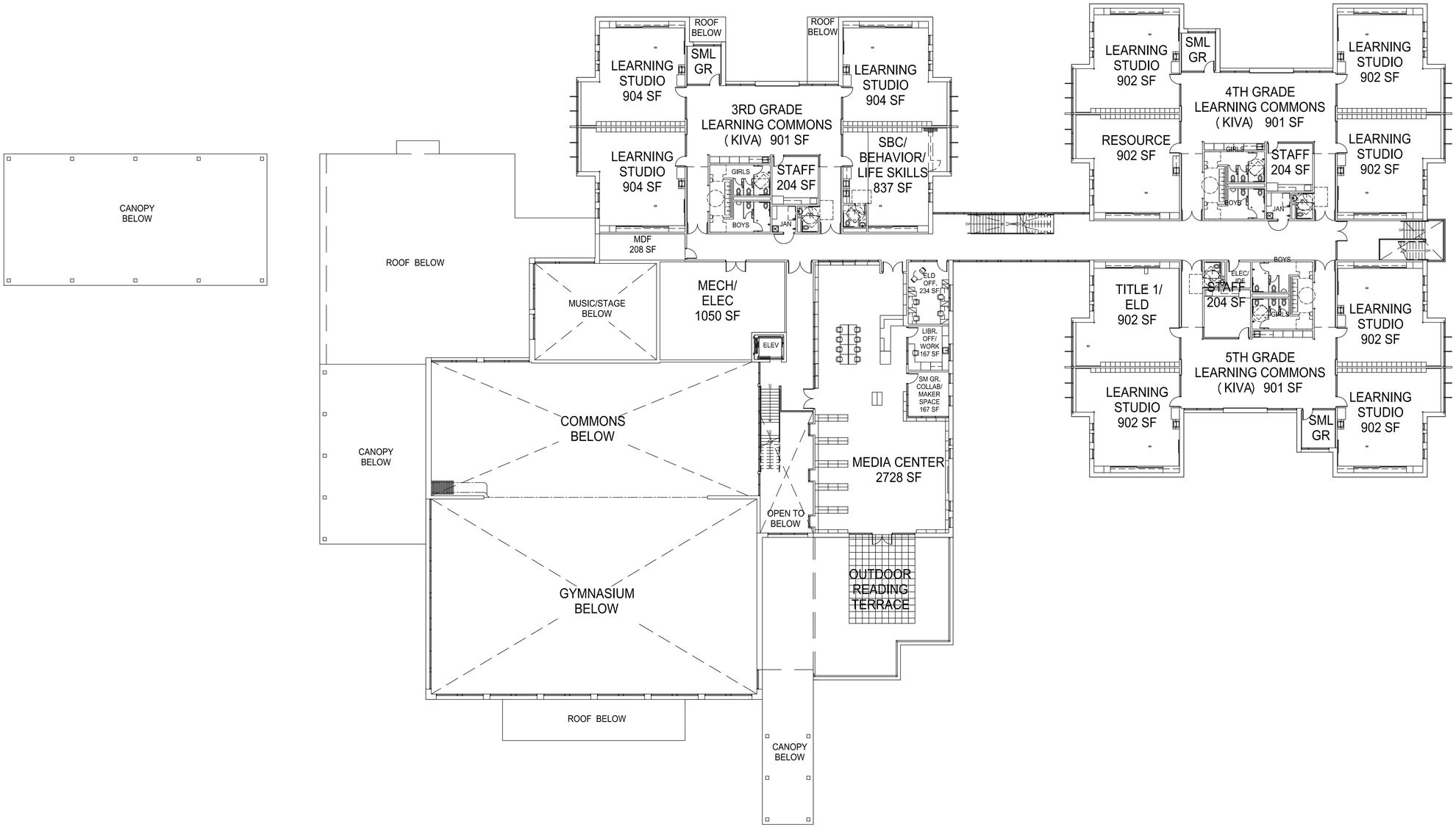
BLRB architects



Reynolds School District

Fairview ES Floor Plan Level 1

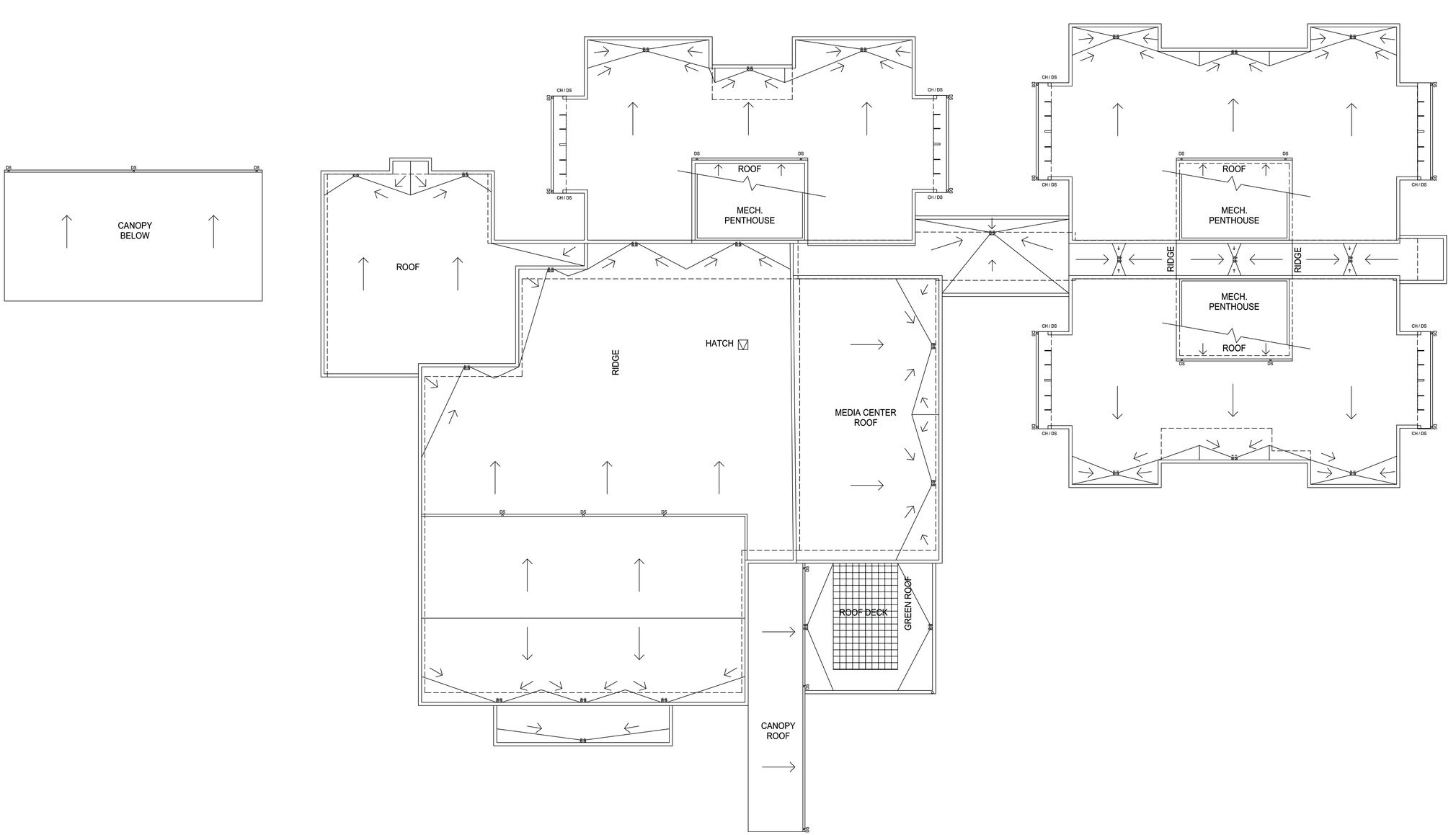
BLRB architects



Reynolds School District

Fairview ES Floor Plan Level 2

BLRB architects



BUILDING EDGE
BELOW ROOF

PARAPET

ROOF DRAIN /
OVERFLOW ROOF
DRAIN

RD OD

TAPERED ROOF
INSULATION SLOPE

DIRECTION OF
STRUCTURAL SLOPE OR
INSULATION
SLOPE = 0.5" PER FOOT

GUTTER WITH
DOWNSPOUT

DS

CONDUCTOR HEAD
WITH DOWNSPOUT BELOW

CH / DS

0' 16' 32'

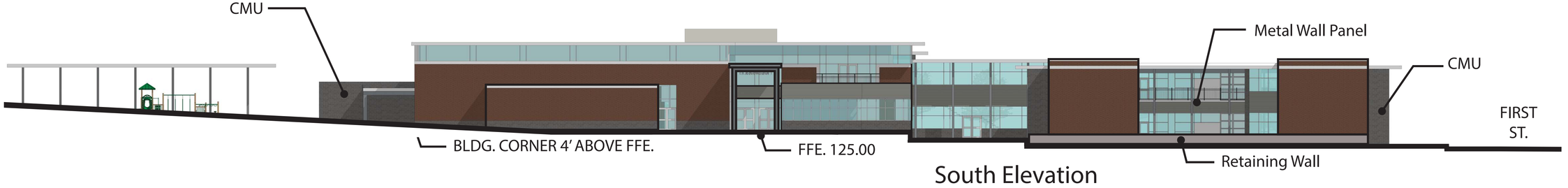
Reynolds School District

Fairview ES Roof Plan

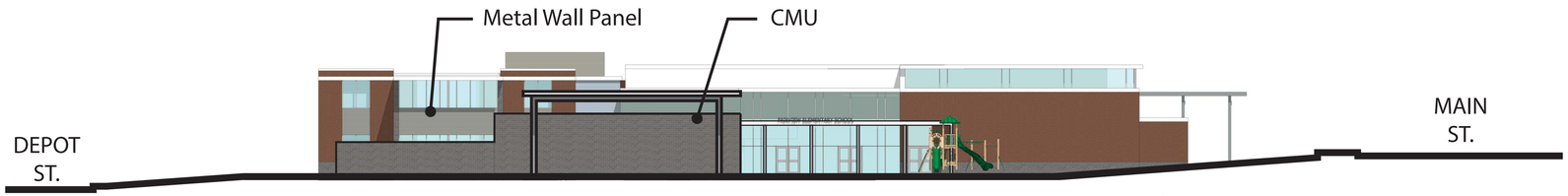
BLRB architects

North Elevation

East Elevation



South Elevation



West Elevation

0' 16' 32'

Exterior Wall Assemblies

Brick
- -Gypsum Board
- -Metal Stud Framing
- -Blanket Insulation R13
- -Sheathing
- -Rigid Insulation R7.5
- -Ties/ Anchors
- -Brick/ Masonry Veneer

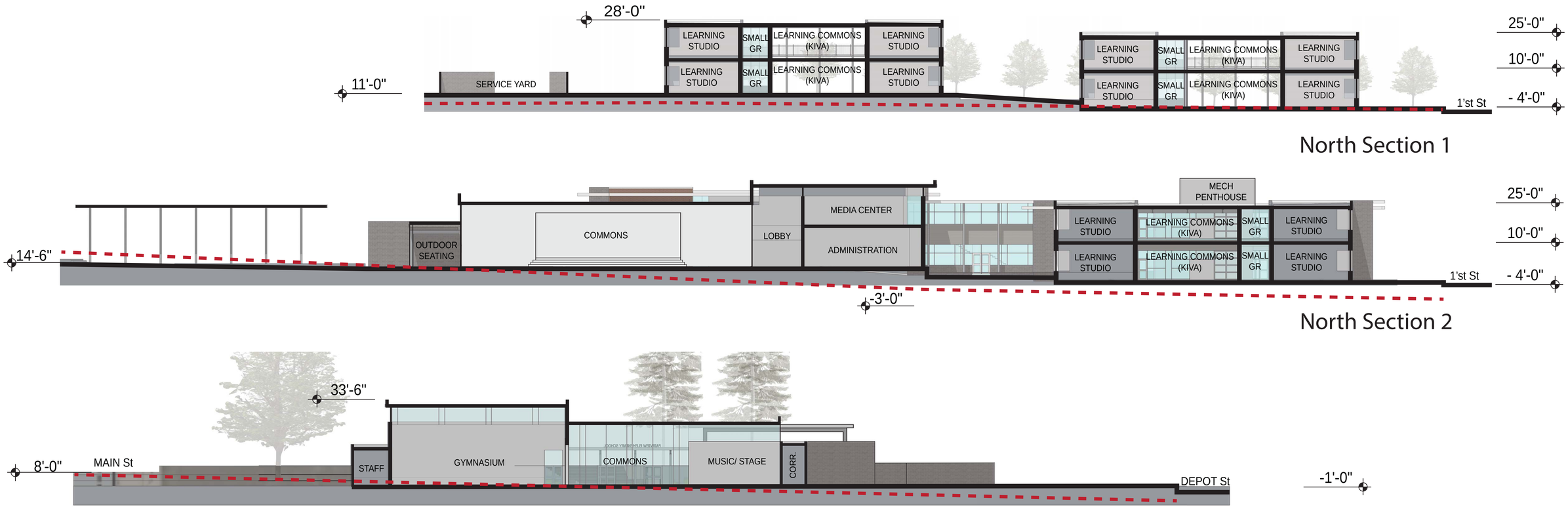
CMU
- -12" Concrete Masonry Units
- -RIgid Insulation R11.4
- -Ties/ Anchors
- -Brick Masonry Veneer

Metal Wall Panels
- -Gypsum Board
- -Metal Stud Framing
- -Blanket Insulation R13
- -Sheathing
- -Rigid Insulation R7.5
- -Metal Furring System
- -12"W Metal Wall Panels

Reynolds School District

Fairview ES Elevations

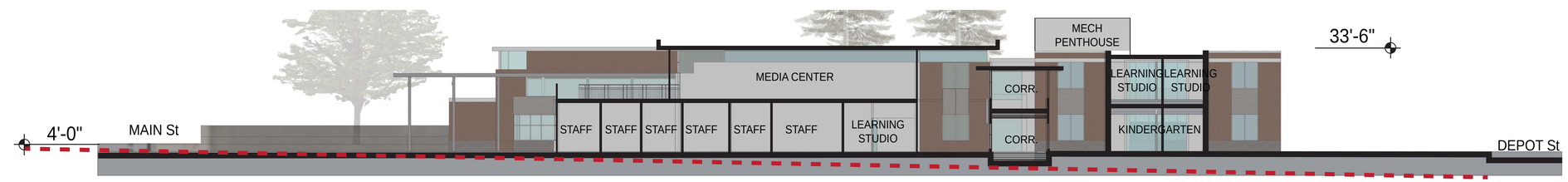
BLRB architects



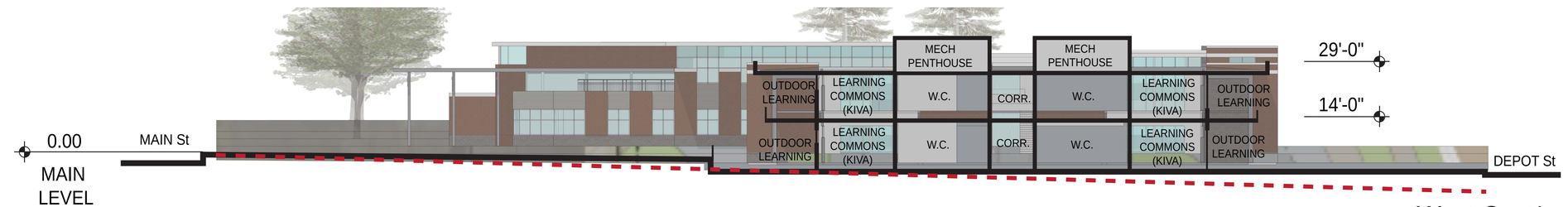
North Section 1

North Section 2

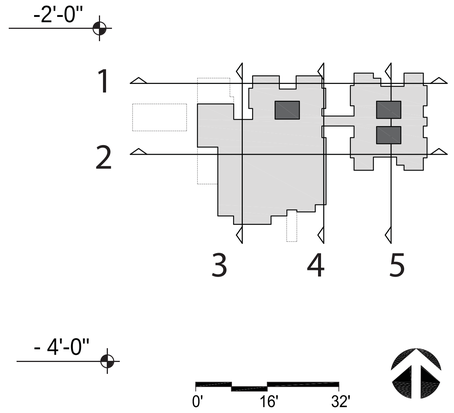
West Section 3



West Section 4



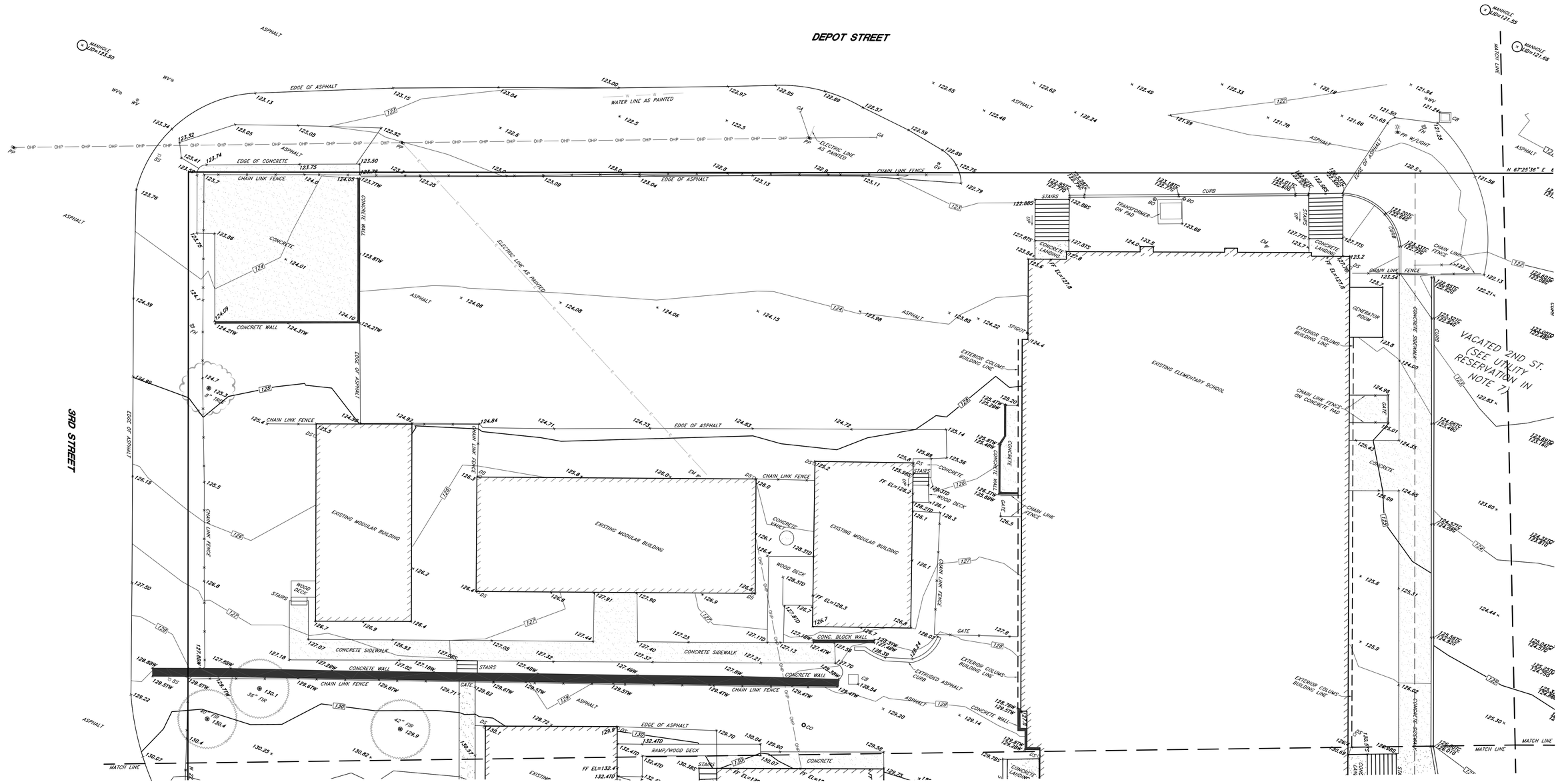
West Section 5



Reynolds School District

Fairview ES Sections

BLRB architects



LEGEND:

WM = WATER METER
WV = WATER VALVE
PP = POWER POLE
SS = STREET SIGN
GA = GUY ANCHOR
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NOTES:

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0 10 20 30

FOR YOUR REVIEW ONLY

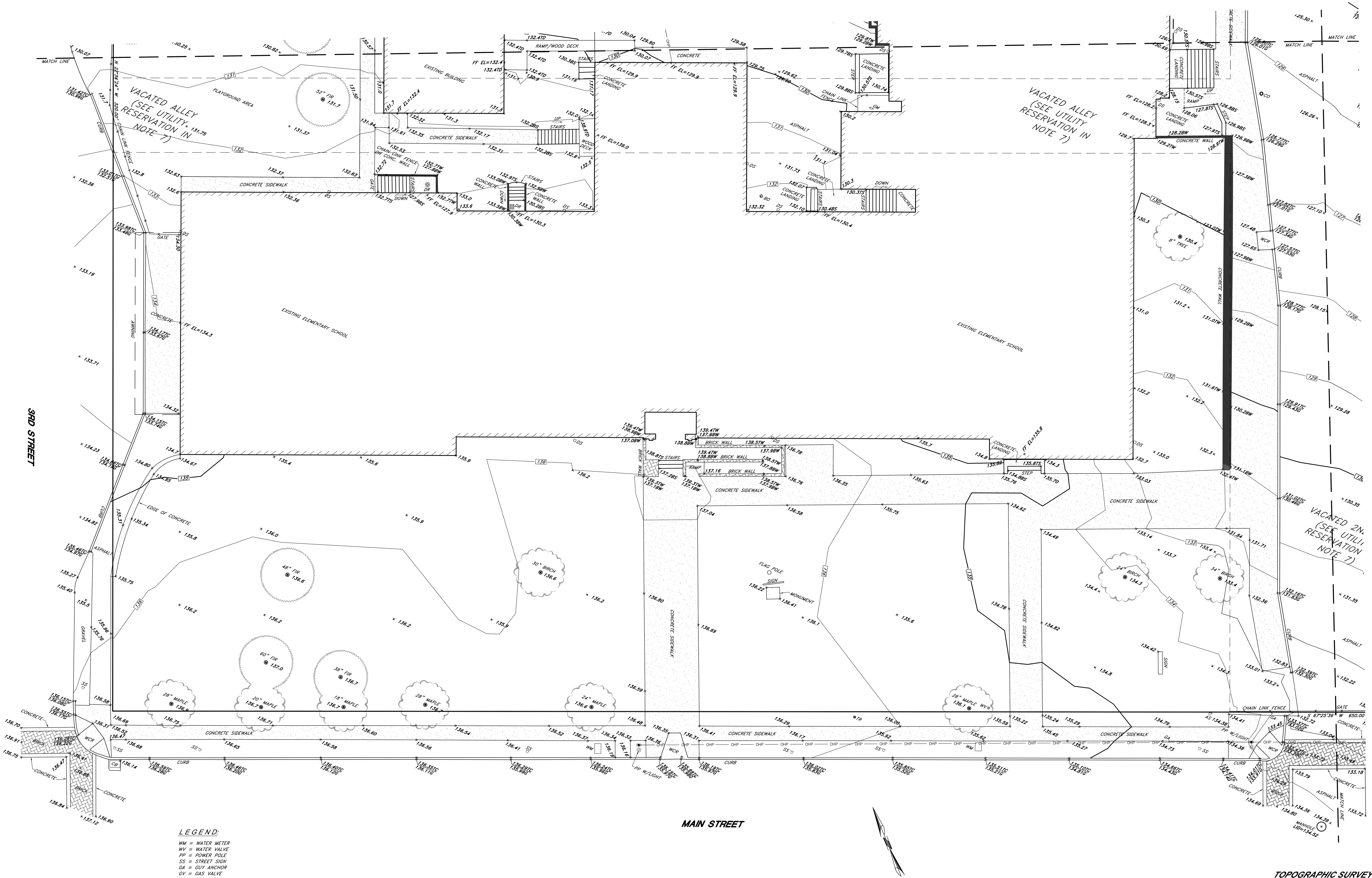
REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON JULY 17, 1982 TERRICK A. JONES 2996
EXPIRES: 6-30-17

TOPOGRAPHIC SURVEY
OF
FAIRVIEW ELEMENTARY SCHOOL
BEING
ALL OF BLOCKS 3 & 4, AND VACATED SECOND AVENUE, "FAIRVIEW"
SITUATED IN THE
SOUTHEAST 1/4 OF SECTION 28, T. 1 N., R. 3 E., W.M.
CITY OF FAIRVIEW, COUNTY OF MULTNOMAH, STATE OF OREGON

R.S. GREENLEAF (1885-1915)
MARSHALL BROTHERS (1915-1957)
BOOTH & WRIGHT (1957-1977)
SETON, JOHNSON & ODELL (1977-1983)
CHASE, JONES & ASSOCIATES, INC. (1983-)

CHASE, JONES & ASSOCIATES INC.
716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14337	2852	APRIL 8, 2016	1 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	



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REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
JULY 16, 1982
ERRIC D. JONES
1996

EXPIRES: 6-30-17

TOPOGRAPHIC SURVEY
OF
FAIRVIEW ELEMENTARY SCHOOL
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716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14337	2852	APRIL 8, 2016	2 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	

DEPOT STREET

1ST STREET

MANHOLE
I.E.=121.35

MANHOLE
I.E.=121.66

WATER LINE

EDGE OF ASPHALT

GB

ASPHALT

N 67°25'36" E 650.00'

GATE

CHAIN LINK FENCE

BENCH

PP W/LIGHT

12"(3) CHERRY

16" CHERRY

12" & 16" CHERRY

22" CHERRY

12" CHERRY

12"(3) CHERRY

12"(2) CHERRY

8"(3) CHERRY

10" & 12" CHERRY

8" (2) & 14" CHERRY

16"(2) CHERRY

8" & 12"(2) CHERRY

CONCRETE PAD

MB

8"(3) & 12"(2) CHERRY

24" CHERRY

10" & 12"(2) CHERRY

8" 10" & 16" CHERRY

12" & 12" CHERRY

PLAYGROUND AREA

CURB

12" CHERRY

SOCCER GOAL

TETHERBALL POLE

MATCH LINE

LOCATED 2ND ST.
(SEE UTILITY
OBSERVATION IN
NOTE 7)

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0 10 20 30

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 29, 1982
BARRY E. JONES
1996
EXPIRES: 6-30-17

FOR YOUR REVIEW ONLY

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PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14337	2852	APRIL 8, 2016	3 OF 4
DRAWN BY: DLW	CHECKED BY: EDJ	SCALE: 1" = 10'	

MATCH LINE

MAIN STREET

1ST STREET

VACATED ALLEY (SEE UTILITY RESERVATION IN NOTE 7)

VACATED ALLEY (SEE UTILITY RESERVATION IN NOTE 7)

VACATED 2ND ST. (SEE UTILITY RESERVATION IN NOTE 7)

PLAYGROUND AREA

CONCRETE SIDEWALK

EDGE OF ASPHALT

EDGE OF GRAVEL

GRAVEL

ASPHALT

CONCRETE WALL

CHAIN LINK FENCE

CHAIN LINK FENCE ON TOP OF WALL

CONCRETE PAD

BENCH

TETHERBALL POLE

BASKETBALL HOOP

SOCCER GOAL

PP W/LIGHT

MANHOLE

CB

CULVERT

CURB

ASPHALT EXTRUDED CURB

CONCRETE LANDING

STAIRS

CONCRETE PAD

WCR

GATE

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0 10 20 30

FOR YOUR REVIEW ONLY

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 17, 1982
ERNEST O. JONES
2996
EXPIRES: 6-30-17

TOPOGRAPHIC SURVEY
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PROJECT NO.	1/4 SECTION	DATE	SHEET
14337	2852	APRIL 8, 2016	4 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	

GeoDesign Inc

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Fairview Elementary School
225 Main Street
Fairview, Oregon

For
Reynolds School District #7
April 13, 2016

GeoDesign Project: ReynoldsSD-2-02

GeoDesign INC

April 13, 2016

Reynolds School District #7
1204 NE 201st Avenue
Fairview, OR 97204

Attention: Ms. Rachel Hopper

Phase I Environmental Site Assessment
Fairview Elementary School
225 Main Street
Fairview, Oregon
GeoDesign Project: ReynoldsSD-2-02

GeoDesign, Inc. is pleased to submit our Phase I ESA of Fairview Elementary School located at 225 Main Street in Fairview, Oregon. Our work was completed in conformance with the standards and practices for all appropriate inquiries specified in Title 40, Chapter I of CFR Part 312 and ASTM Practice E 1527-13. Contractual terms for our services are contained in our proposal dated February 24, 2016.

We appreciate the opportunity to be of service to Reynolds School District #7. Please contact us if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.

Robert E. Belding, R.G.
Principal Geologist

cc: Mr. Robert Collins, Day CPM Services

SRV:REB:kt
Attachments
Document ID: ReynoldsSD-2-02-041316-envr.docx

TABLE OF CONTENTS **PAGE NO.**

1.0 INTRODUCTION

This report summarizes the results of our Phase I ESA of Fairview Elementary School located at 225 Main Street in Fairview, Oregon (project site). The project site includes Tax Lot 100 of Multnomah County Tax Map 1N3E28DA and is currently occupied by a two story, 63,066-square-foot main school building located in the western portion of the project site. To the northwest of the main school building there are four modular classroom structures and an asphalt concrete-paved parking lot. The school grounds on the east half of the property include grass playing fields, an asphalt concrete-paved basketball court and play area, and a playground. The project site is shown relative to surrounding physical features on Figure 1. The project site layout and surrounding properties are shown on Figure 2. GeoDesign's firm profile and resumes of project personnel are presented in Appendix A. Acronyms and abbreviations used herein are defined at the end of this document.

2.0 PURPOSE

2.1 PROTECTION FROM CERCLA LIABILITY

One purpose for conducting a Phase I ESA is to undertake all appropriate inquiries into prior ownership and uses of a property so that a prospective purchaser may potentially claim protection from CERCLA and/or state liability as an innocent landowner, a bona fide prospective purchaser, or a contiguous property owner. The standards and practices for all appropriate inquiries are specified in Title 40, Chapter I of CFR Part 312 and ORS 465. The inquiry must be conducted by an environmental professional to identify conditions indicative of releases and threatened releases of hazardous substances as defined in CERCLA Section 101(22). If the prospective purchaser is the recipient of an EPA Brownfields Grant, the inquiry must also identify conditions indicative of releases and threatened releases of petroleum and petroleum products and controlled substances as defined in 21 U.S. Code 802. These standards and practices do not require the identification of quantities of hazardous substances, petroleum and petroleum products, and controlled substances that, because of said quantity, generally would not pose a threat to human health or the environment.

2.2 IDENTIFICATION OF RECOGNIZED ENVIRONMENTAL CONDITIONS

Another purpose for conducting a Phase I ESA is to identify recognized environmental conditions in connection with a property as they pertain to ASTM Practice E 1527-13. This practice is intended for use by parties who wish to assess the environmental condition of a property by taking into account commonly known and reasonably ascertainable information. Although use of ASTM Practice E 1527-13 constitutes all appropriate inquiry as described in Section 2.1, the standard is intended primarily as an approach to identify recognized environmental conditions in connection with a property. A recognized environmental condition is defined by 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. Recognized environmental conditions do not include de minimis conditions that do not generally present a risk to public health or to the environment and would not be the subject of legal enforcement if brought to the attention of appropriate governmental agencies.

3.0 SCOPE OF SERVICES

The scope of services completed for this project was conducted in conformance with the standards and practices for all appropriate inquiries specified in 40 CFR Part 312 and the scope and limitations of ASTM Practice E 1527-13. The specific completed scope of services included the following:

- Reviewed a current USGS topographic map to identify the physical setting of the project site.
- Reviewed federal, tribal, state, and local environmental records for listings of known or suspected environmental conditions at the project site or nearby properties as specified in 40 CFR Part 312 and ASTM Practice E 1527-13.
- Reviewed reasonably ascertainable standard historical sources, including aerial photographs, USGS topographic maps, reverse city directories, online property information (including available building department records, property tax information, and zoning/land use records), and other historical sources, as appropriate to identify development history on and adjacent to the project site relative to the possible use, generation, storage, release, or disposal of hazardous substances.
- Interviewed current occupants/owner representatives of the project site (as provided by Reynolds School District #7) and a local government official regarding their knowledge of the project site.
- Conducted a visual reconnaissance of the project site and adjacent properties to obtain information indicating the likelihood of identifying recognized environmental conditions concerning the properties.
- Prepared this report that presents our findings and provides conclusions and recommendations.

The scope of services was limited to only those items listed above. This project did not include completion of an environmental compliance audit; an evaluation for the presence of PCBs in light ballasts; a survey for asbestos, lead-based paint, radon gas, toxic mold, biological pollutants, or urea-formaldehyde insulation; or a wetlands determination or delineation.

4.0 PROJECT SITE AND VICINITY DESCRIPTION

Information concerning the physical setting of the project site and vicinity is based on a review of the USGS 7.5-minute Camas, Washington, topographic quadrangle map; information provided by EDR of Shelton, Connecticut; and observations made during a site reconnaissance conducted on March 21, 2016.

The project site encompasses approximately 4.78 acres at 225 Main Street in Fairview, Oregon. The project site is currently owned by Reynolds School District #7 and developed with a two-story, 63,066-square-foot main school building located on the western portion of the project site. To the northwest of the main school building there are four modular classroom structures and an asphalt concrete-paved parking lot. The school grounds on the east half of the property include grass playing fields, an asphalt concrete-paved basketball court and play area, and a playground. The project site includes Tax Lot 100 in the northeast quarter of the southeast quarter of Section 28, Township 1 North, Range 3 East of the Willamette Meridian.

The project site is situated at an elevation of approximately 125 feet above MSL. The topography of the project site slopes slightly downward to the north. Based on a review of topographic maps for the area, shallow groundwater beneath the project site is expected to flow to the north towards Fairview Creek. Based on a recent geotechnical study of the project site by GeoDesign, the depth to groundwater beneath the project site is approximately 10 to 12 feet BGS.

Land use in the vicinity of the project site is primarily residential and industrial. According to the City of Fairview Planning Services Department, the project site is zoned Residential Community Service Parks (R/CSP). Properties surrounding the project site are zoned Residential Community Service Parks (R/CSP), Residential (R-7.5), and LI (Light Industrial).

5.0 USER-PROVIDED INFORMATION

The purpose of this section is to describe information provided by the user of this report (Reynolds School District #7) that was considered in the evaluation of potential recognized environmental conditions in connection with the project site. Information provided by the user regarding the project site is summarized in the following sections. The user was not provided with title and judicial records for environmental liens or activity and land use restrictions, specialized or actual knowledge or experience, valuation reduction for environmental issues, or commonly known or reasonably ascertainable information. Therefore, these materials were not reviewed as part of this assessment. Previous environmental reports were provided by the User and are summarized in the following sections.

5.1 PREVIOUS REPORTS

GeoDesign was provided with three previous environmental reports regarding the project site. The findings and conclusions of the following reports are summarized in the following sections:

- *System-Wide Assessment, Individual Water Pollution Control Facilities (WPCF) Permit for Class V Stormwater Underground Control (UIC) Systems,* prepared by PBS Engineering and Environmental, Inc. (PBS), dated December 2015 (2015a)
- *Management Plan, Individual Water Pollution Control Facilities (WPCF) Permit for Class V Stormwater Underground Control (UIC) Systems,* prepared by PBS, dated December 2015 (2015b)
- *Monitoring Plan, Individual Water Pollution Control Facilities (WCPF) Permit for Class V Stormwater Underground Injection Control (UIC) Systems,* prepared by PBS, dated December 2015 (2015c)

5.1.1 PBS (2015a)

In December 2015 PBS developed an inventory of Reynolds School District #7 owned and operated UICs to support tracking and management of UICs, identify high-risk UICs for sampling and/or retrofit or closure, and develop a dataset to be used to adaptively manage Reynolds School District #7's stormwater monitoring program. Reynolds School District #7 maintains a UIC Inventory to track information relevant to the System-Wide Assessment. The inventory included the UIC status (active or closed), UIC identifier, basin type, and UIC location by latitude and longitude. Location coordinates of UICs not found during the assessment were estimated using historical site plans and Google Earth.

The project site (DEQ UIC Facility # 10772) was listed as having two active UICs. The project site is not listed as having any UICs that discharge directly to groundwater or are prohibited injection systems. The report noted that the project site is listed in the DEQ LUST database for a reported heating oil release in August 2001. Cleanup for this release was completed in October 2001 and LUST status is reported as closed. PBS reported the listing was not likely to pose a risk to the project site UICs. No DEQ sites with a potential to pose a risk to the UICs were identified adjacent to the school.

The report identified two dry wells at the project site (WE-DW-01 and WE-DW-02) located at the northern boundary of the sport field (Figure 2). The actual locations of the UICs were not determined in the field but approximated from historical site plans, site plans prepared by PBS in 2001, and Google Earth. Dry well WE-DW-01 was listed as an active storm dry well that collects stormwater from the roof of the project site structures. Dry well WE-DW-02 was listed as a french drain that collects stormwater from an unknown source. The reported depths are 15 and 3.5 feet BGS, respectively.

The report lists two abandoned septic systems (WE-S-1 and WE-S-2) that were part of the same septic system. The system was abandoned per a 2001 inventory prepared by PBS.

The UIC Inventory may be updated periodically throughout the permit term as UICs are decommissioned, modified, or new UICs are installed. Significant changes to UIC systems will be reported to DEQ in the annual report for the calendar year in which the change occurred.

5.1.2 PBS (2015b)

PBS prepared a UIC Stormwater Management Plan that describes how the permittee (Reynolds School District #7) will manage and maintain stormwater features. The overall goal of the Management Plan is to protect groundwater by managing risks presented by various pollutants and pollutant sources. The Management Plan does not include any project site-specific information. The Management Plan details best management practices that include operations and maintenance, spill protection, pollution prevention and good housekeeping, employee education, public outreach, and recordkeeping responsibility.

The Management Plan includes protocol for the decommissioning of a UIC that includes a sampling plan, submit for closure authorization, decommissioning the UIC, and a final closeout report.

5.1.3 PBS (2015c)

PBS completed a District-wide UIC Stormwater Monitoring Plan to ensure that stormwater infiltration at the various Reynolds School District #7 facilities occurs in a manner that is protective of human health and the environment. The Stormwater Monitoring Plan presents UIC sampling procedures, including the chemical analytical program, to be implemented for each monitoring episode, quality assurance/quality control procedures to ensure data quality, and the reporting format to present data collected as part of the Monitoring Plan. The Monitoring Plan was implemented for three UICs, including one UIC at the Reynolds Middle School and two UICs at the Walt Morey Middle School. None of the UICs present on the project site are part of the Monitoring Plan.

6.0 ENVIRONMENTAL RECORDS REVIEW

Federal, tribal, state, and local environmental records and databases were compiled according to 40 CFR Part 312 and ASTM Practice E 1527-13 for the project site and those facilities that currently or previously have occupied properties within the specified search distance from the project site. Information contained in the records and databases was reviewed by GeoDesign to evaluate the potential for environmental impacts to the project site. The EDR report is presented in Appendix B.

6.1 PROJECT SITE

Based on our review of the EDR report, the project site was listed on the DEQ LUST database, the EPA ICIS database, the EPA ECHO database, the RGA LUST database, and the EPA FINDS database. The DEQ LUST database contains listings of sites with reported leaking UST incidents. According to the information on the DEQ website, LUST File No. 26-01-6614 was opened in 2001 after soil contamination was encountered during the decommissioning of a home heating oil UST. The leaking UST is located at 201 Main Street, which corresponds to the location of the project site. The LUST file is currently open and is currently unassigned to a project manager. GeoDesign requested a review of LUST File No. 26-01-6614 from the DEQ Northwest Regional office on April 8, 2016. As of the date of this Phase I ESA, we have not received the file information.

The project site was also identified on the EPA ICIS database, the EPA ECHO database, the RGA LUST database, and the EPA FINDS database. All four of these lists are inventory or reference lists and do not imply a recognized environmental condition at the project site. Based on the regulatory status of the project site, the media impacted at the project site, and information contained in the regulatory databases, it is our professional opinion that the presence of an open LUST file represents a recognized environmental condition at the project site.

6.2 SURROUNDING SITES

The EDR report identified 39 surrounding sites listed on one or more regulatory databases within the ASTM search distances. Based on changes in ownership, address, multiple regulatory listings, and multiple regulatory actions, two or more of the surrounding site listings may actually represent only one physical location. Therefore, the number of surrounding sites is likely less than reported by EDR. Based on local topography, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and information contained in the regulatory databases, it is our professional opinion that none of the 39 sites should pose a risk of a recognized environmental condition at the project site. However, due to their close proximity to the project site, three of the listed sites are discussed in the following sections.

6.2.1 Wastewatch, LLC

The Wastewatch, LLC site is located at 255B Depot Street, adjacent to the project site to the north and down gradient of the project site in the inferred groundwater flow direction. The Wastewatch, LLC site was listed on the EPA RCRAInfo database. The EPA RCRAInfo database contains information on facilities that generate, store, transport, treat, or dispose of hazardous waste. The project site was listed as a Non-Generator of hazardous waste. Non-Generators do

not presently generate hazardous waste. There were no reported violations. Based on the local topography, the inferred direction of shallow groundwater flow, the regulatory status of the Wastewatch, LLC site, and information contained in the regulatory databases, it is our professional opinion that the EPA RCRAInfo database listing for the Wastewatch, LLC site should not pose a risk of a recognized environmental condition on the project site.

6.2.2 35 3rd Street (LUST File No. 26-99-0066)

The 35 3rd Street site is adjacent to the project site to the west and cross gradient with the project site in the inferred groundwater flow direction. Based on our review of the EDR report, the 35 3rd Street site was listed on the DEQ LUST database (LUST File No. 26-99-0066), which contains listings of sites with reported leaking UST incidents. According to the information in the EDR report, soil contamination was encountered during decommissioning of a heating oil UST in 1999. Confirmation soil samples collected from the bottom of the remedial excavation indicated that petroleum hydrocarbons were not detected at concentrations greater than the analytical laboratory reporting limits. In addition, groundwater was not observed during the UST decommissioning. DEQ issued an NFA determination for the 35 3rd Street site in 1999. Based on the local topography, the inferred direction of shallow groundwater flow, the regulatory status of the 35 3rd Street site, the media impacted at the 35 3rd Street site, and information contained in the regulatory database, it is our professional opinion that the risk of a recognized environmental condition at the project site from the 35 3rd Street site is low.

6.2.3 City of Fairview Public Works Maintenance Facility

The City of Fairview Public Works Maintenance Facility site is located at 48 1st Street, adjacent to the project site to the east and cross gradient with the project site in the inferred groundwater flow direction. The City of Fairview Public Works Maintenance Facility site was listed on the EPA RCRAInfo database. The EPA RCRAInfo database contains information on facilities that generate, store, transport, treat, or dispose of hazardous waste. The City of Fairview Public Works Maintenance facility site was listed as a CESQG of hazardous waste. CESQGs generate less than 100 kg per month of hazardous waste or less than 1 kg of acutely hazardous waste per month. There were no reported violations. Based on the local topography, the inferred direction of shallow groundwater flow, and information contained in the regulatory databases, it is our professional opinion that the EPA RCRAInfo database listing for the City of Fairview Public Works Maintenance Facility site should not pose a risk of a recognized environmental condition on the project site.

6.3 ORPHAN SITES

Due to poor or inadequate address information, EDR was unable to successfully map four facilities identified on several environmental databases. However, enough information was available to ascertain the general location of these orphan facilities relative to the project site and, in some cases, the status of the investigations concerning these orphan sites. Based on the location of the orphan sites, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and information contained in the regulatory databases, it is our professional opinion that these orphan sites should not pose a risk of a recognized environmental condition at the project site.

7.0 PROJECT SITE HISTORY AND BACKGROUND

Reasonably ascertainable information concerning the history and background of the project site begins in 1918 and includes aerial photographs, USGS topographic maps, reverse city directories, online property information (including available building department records, property tax information, and zoning/land use records), and personal knowledge of individuals familiar with the project site. Fire insurance maps for the project site were not available as reported by EDR. The "No Coverage" report provided by EDR is presented in Appendix C.

Historical aerial photographs for the project site were obtained from EDR and were reviewed by GeoDesign. The scale of the photographs reviewed allowed for the interpretation of general site development/configuration but did not allow for the identification of specific project site features. Aerial photographs were reviewed for the following years: 1935, 1948, 1955, 1963, 1970, 1981, 1990, 2001, 2009, and 2012. The historical aerial photographs are presented in Appendix C.

Historical topographic maps of the project site were obtained from EDR to evaluate past uses of the project site. Topographic maps were reviewed for the following years: 1918, 1942, 1954, 1961, 1975, 1996, and 2013. The historical topographic maps are presented in Appendix C.

Reverse city directories for the project site and adjacent properties were obtained from EDR. Please note that in some locations, particularly in urban areas, addresses for a particular property may change over time. Based on a review of historical property information, the following addresses historically correspond to the project site: 215 Main Street (1967 – 1985) and 225 Main Street (2003 – 2013). The city directories were reviewed (if available) at approximately five-year intervals for the years spanning 1967 through 2013. The EDR City Directory Abstract is presented in Appendix C.

Online property information for the project site and select adjacent properties was reviewed by GeoDesign. The online property information is presented in Appendix C.

7.1 PROJECT SITE

Based on the review of historical sources cited in Section 7.0, we have identified the following developmental history of the project site:

Year	Observations	Source
1918 through 1942	The western half of the project site was developed with a school and the eastern half was developed with two apparent residential structures sometime prior to 1918. According to online information, the first phase of the current school building was completed in 1925. The project site remained relatively unchanged through 1942.	• Aerial Photograph • Topographic Maps • Online Information

Year	Observations	Source
1948 through 1996	By 1948, the eastern half of the project site had been redeveloped as a playground associated with the school. Additions were made to the main school building through 1963. An outbuilding was present near the northwest corner of the project site from at least 1954 through 1981. An additional outbuilding was present at the northwest portion of the playground from at least 1955 through 1975. The project site remained relatively unchanged between 1990 and 1996.	• Aerial Photographs • Topographic Maps • City Directories
2001 through 2016	By 2001 four modular structures were added at the northwest portion of the project site. The project site has remained relatively unchanged through 2016.	• Aerial Photographs • Topographic Maps • City Directories • Site Reconnaissance

Our review of historical sources from 1918 through 2016 indicated that the project site was developed with a school and at least two residences prior to 1918. The current school building was built in 1925, with additional phases added between 1948 and 1963. The eastern half of the project site was redeveloped as a playground between 1942 and 1948. An outbuilding existed near the northwestern corner of the project site between 1954 and 1981. An additional outbuilding was present at the northwest portion of the playground from at least 1955 through 1975. Between 1996 and 2001 four modular structures were added in the northwestern portion of the project site.

7.2 ADJOINING SITES

Based on the review of historical sources cited in Section 7.0, we have identified the following developmental history of properties adjoining the project site:

Year	Observations	Source
1918 through 1963	The ROWs adjoining the project site had been constructed to their current approximate configuration sometime prior to 1918. Sites adjacent to the east, south, and west were primarily residential, and the site adjacent to the north was developed as a railyard. An apparent commercial structure was present to the east of the project site since at least 1948.	• Aerial Photographs • Topographic Maps
1970 through 2016	The City of Fairview Public Works Maintenance Facility was present adjacent and east of the project site by at least 1970. By 2001 the site adjacent to the north had been redeveloped as a warehouse and was occupied by Leighs Roof Service Co. Inc. in 2008 and Wastewatch, LLC in 2013.	• Aerial Photographs • Topographic Maps • City Directories • Site Reconnaissance

Our review of historical sources from 1918 through 2016 indicated that the ROWs adjoining the project site had been constructed to their current approximate configuration and properties adjacent to the project site were primarily residential to the east, south, and west by 1918. The

site adjacent to the north was developed as a railyard by 1918 and was redeveloped as a warehouse by 2001. The City of Fairview Public Works Maintenance Facility has been adjacent to the east of the project site since at least 1970.

8.0 SITE RECONNAISSANCE

GeoDesign conducted a reconnaissance of the project site on March 21, 2016. The observations noted in this section apply to the project site as it appeared on that day. The site reconnaissance was performed to observe the current condition of the project site and to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the project site. Access to the project site and its structures was generally unlimited. GeoDesign was accompanied by Mr. Gerald Fowkes (current occupant/owner representative) during the reconnaissance. The adjoining properties were also observed from the boundaries of the project site as part of the site reconnaissance. A site plan is provided on Figure 2. Photographs of the project site were taken to document observations made during the reconnaissance and are presented on Figures 3 and 4.

8.1 GENERAL PROJECT SITE USE

The project site consists of a two story, 63,066-square-foot main school building located on the western portion of the project site. To the northwest of the main school building there are four modular classroom structures and an asphalt concrete-paved parking lot. The school grounds on the east half of the property include grass playing fields, an asphalt concrete-paved basketball court and play area, and a playground.

8.1.1 Site Drainage

Surface water at the project site is expected to flow toward either (1) catch basins along Depot Street, adjoining to the project site to the north, (2) toward the catch basin near the southeastern corner of the project site, or (3) toward three dry wells located between the main school building and the modular buildings. Some surface water was observed in depressions along the northern side of the project site. Petroleum-like sheens or odors were not observed.

8.1.2 Project Site Structures

The main project site structure is a two-story, brick, 63,066-square-foot school building located at the western portion of the project site. The main school building was built in approximately four phases and includes classrooms, offices, a cafeteria, a gym, a library, maintenance closets, a boiler room, and electrical closets. To the northwest of the building there are four wood-framed modular classroom structures.

8.1.3 Potable Water Supply

Potable water is supplied to the project site by the City of Fairview.

8.1.4 Sewage Disposal System

Sewage generated at the project site is discharged to the City of Fairview municipal sanitary sewer system. Municipal sewer service has been available at the project site since approximately 1957.

8.1.5 Hazardous Substances and Petroleum Products

Various cleaners and chemical products in containers of less than 5 gallons were observed in the boiler room and maintenance closet. Evidence of leaks or spills was not observed in the vicinities of these containers.

8.1.6 Storage Tanks

Evidence of USTs or ASTs was not observed on the project site. A former UST location was identified during the site reconnaissance north of the main school building (Figures 2 and 3).

8.1.7 Drums

Drums were not observed on the project site.

8.1.8 Unidentified Substance Containers

Unidentified substance containers suspected of containing hazardous substances or petroleum products were not observed on the project site.

8.1.9 Odors

Strong, pungent, or noxious odors were not observed on the project site.

8.1.10 Pools of Liquid

Some ponded water was observed along the northern side of the project site and in two sumps located (1) near the western corner of the main school building and (2) in the boiler room. Unusual sheens or odors were not observed, but some foam was observed on the surface of the water in the sump located near the western corner of the main school building.

8.1.11 PCB-Containing Equipment

Two pole-mounted transformers were observed in ROWs adjacent to the project site. One pad-mounted transformer was observed north of the main school building gym and was marked as containing "Less than 1 ppm PCBs." All three of the transformers appeared to be in good condition, with no evidence of spills or leakage. Electrical panels were observed in an electrical closet located in the northern portion of the school gym. All panels appeared to be in good condition, with no evidence of spills or leakage.

8.1.12 Pits, Ponds, and Lagoons

A raingarden was observed near the western corner of the project site. Ponded water was not observed in the raingarden.

8.1.13 Stained Soil or Stained Pavement

Stained soil or stained pavement was not observed on the project site.

8.1.14 Stressed Vegetation

Stressed vegetation was not observed on the project site.

8.1.15 Solid Waste
Solid waste generated at the project site is stored in dumpsters located near the northwest corner of the gym prior to pick up and disposal. Surface staining was not observed beneath the dumpsters.

8.1.16 Waste Water
Waste water was not observed on the project site.

8.1.17 Wells
Three dry wells were observed to the north of the main school building (Figure 2). Two of the dry wells were observed in stairwells accessing the ground floor of the main school building. The other dry well was observed in the paved area between the main school building and modular building P-1. Water was not observed in the dry wells.

8.1.18 Septic Systems
Evidence of an on-site septic system or cesspool was not observed on the project site.

8.1.19 Fill
Evidence of fill was not observed on the project site.

8.1.20 Heating and Cooling Systems
Heating and cooling systems associated with the project site buildings were reportedly powered by natural gas and/or electricity. Boilers were observed to be retrofitted to be fueled by natural gas.

8.1.21 Interior Stains or Corrosion
Interior stains or corrosion was not observed in the project site structures.

8.1.22 Interior Drains or Sumps
Two interior sumps were observed located (1) near the western corner of the main school building and (2) in the boiler room. Water was observed in both of the sumps. Unusual sheens or odors were not observed. Some foam was observed on the surface of the water in the sump located near the western corner of the main school building.

8.2 SURROUNDING PROPERTY USE
The project site is directly bound to the north by Depot Street, across which is Wastewatch, LLC and a vacant lot; to the east by 1st Street, across which are residences and the City of Fairview Public Works Maintenance Facility; to the south by Main Street, across which are residences; and to the west by 3rd Street, across which are residences. Evidence of adverse environmental conditions was not observed on adjacent properties.

9.0 INTERVIEWS

The project site is currently owned by Reynolds School District #7 and occupied by Fairview Elementary School. GeoDesign interviewed current occupants/owner representatives and a local government official during the course of this study. Information obtained from these interviews is presented in the following sections.

9.1 CURRENT OCCUPANTS/OWNER REPRESENTATIVES

9.1.1 Mr. Gerald Fowkes

Mr. Gerald Fowkes (maintenance technician) was interviewed on March 21, 2016 regarding his knowledge of the project site. Mr. Fowkes has been familiar with the project site for approximately 14 years. According to Mr. Fowkes:

- A UST was removed from the paved area to the north of the main school building in the 1990s.
- Three dry wells not connected to municipal sanitary or storm sewer are located at the project site.
- An interior sump is located in a classroom closet in the western portion of the main school building.
- The landscaping contractor serving Fairview Elementary School uses pesticides at the project site to control weeds, but storage or mixing of pesticides does not occur at the project site.
- The backup generator at the project site is fueled by natural gas.

9.1.2 Mr. Jon Gotchall

Mr. Jon Gotchall (maintenance technician) completed a Phase I ESA Questionnaire on March 14, 2016 regarding his knowledge of the project site. Mr. Gotchall has been familiar with the project site for approximately ten years. According to Mr. Gotchall, the site located north of the school is currently occupied by Leathers Oil, where a truck wash station is located. Mr. Gotchall noted that a UST was formerly located at the project site as are dry wells, sumps, and floor drains. Mr. Gotchall also noted that routine pesticide use occurs at the project site to control weeds.

9.2 LOCAL GOVERNMENT OFFICIAL

Mr. Zaldy Matalanda (City of Fairview) was interviewed via telephone on April 7, 2016 regarding his knowledge of the project site. Mr. Matalanda is not familiar with the project site but provided information available in the City of Fairview databases. According to Mr. Matalanda, the date that the project site was connected to sanitary sewer is unknown, but the main sewer closest to the project site was constructed in 1957. The project site currently has two sanitary sewer connections.

10.0 DATA GAPS

Data gaps were not encountered during the course of this study.

11.0 CONCLUSIONS AND RECOMMENDATIONS

GeoDesign performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 and all appropriate inquiries specified in 40 CFR Part 312 and the proposal to Reynolds School District #7 dated February 24, 2016 for the project site located at 225 Main Street in Fairview, Oregon. Any exceptions to or deletions from this practice are described in Sections 3.0 and 13.0. This assessment has revealed the following:

- The project site was listed on the DEQ LUST database (File No. 26-01-6614) following the removal of a heating oil UST from 201 Main Street in 2001. This leaking UST likely corresponds with the UST removal reported by Mr. Gerald Fowkes. This unresolved LUST listing represents a recognized environmental condition at the project site. We recommend taking the steps necessary to close out the DEQ LUST file for the project site and achieve an NFA determination from DEQ. In addition, an addendum to this report will be submitted regarding additional information contained in the LUST file once we receive the file information from DEQ.
- Three apparent dry wells exist to the north of the main school building. These dry wells appear to be unregistered. All three dry wells should be registered with the DEQ UIC program and decommissioned in accordance with state and local regulations prior to commencing construction at the project site if they are not going to be used in the future.
- The eastern portion of the project site was historically occupied by at least two residences. It is not known if these residences utilized heating oil stored in USTs. If undocumented heating oil USTs are encountered during construction activities, they should be decommissioned in accordance with applicable DEQ regulations.

In addition to the recognized environmental conditions described above, the following non-recognized environmental conditions were observed on the project site.

The presence of the chemicals and hazardous substances stored in small quantity containers at the project site likely do not represent a recognized environmental condition at the project site. The majority of materials observed appeared to be properly stored and evidence of leaks or spills was not observed in the vicinity of these containers. However, these stored substances should be removed from the project site and properly disposed of prior to development of the project site.

If historical septic systems are found during site construction activities, they should be properly abandoned in accordance with state and local regulations. If chemical or hazardous material disposal is evident in any of the septic systems, soil samples should be collected from beneath the septic systems.

This scope of work did not include the completion of surveys for lead-based paint, asbestos-containing materials, or other hazardous building materials in the on-site structures. We understand these services have been completed by others.

12.0 DECLARATIONS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the project site. We developed and performed all the appropriate inquiries in accordance with the standards and practices set forth in 40 CFR Part 312.

13.0 LIMITATIONS

This Phase I ESA has been prepared for use by Reynolds School District #7. GeoDesign makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others. The information presented in this report is based on the above-described research and a single recent site visit. Information provided by others was relied on in our description of historical conditions and review of regulatory databases and files. The available data do not provide definitive information with regard to all past uses, operations, or incidents at the project site or adjacent properties. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property. There is always a potential that areas with contamination that were not identified during this Phase I ESA exist at the project site or in the study areas. Further evaluation of such potential would require additional research, subsurface exploration, sampling, and/or testing.

Some substances may be present in the project site vicinity in quantities or under conditions that may have led or may lead to contamination of the project site but are not included in current local, state, or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoDesign cannot be responsible if the standards of all appropriate inquiry or regulatory definitions of hazardous substance change or if you are required to meet more stringent standards in the future.

This report is not intended for use by others, and the information contained herein is not applicable to other sites. Reliance on this report by other parties is strictly at the risk of those parties, and GeoDesign will grant no third party reliance unless specifically requested in writing by our client for whom this report was prepared.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted environmental science practices for Phase I ESAs in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

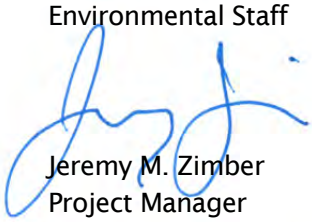
♦ ♦ ♦

We appreciate the opportunity to be of service to Reynolds School District #7. Please call if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.

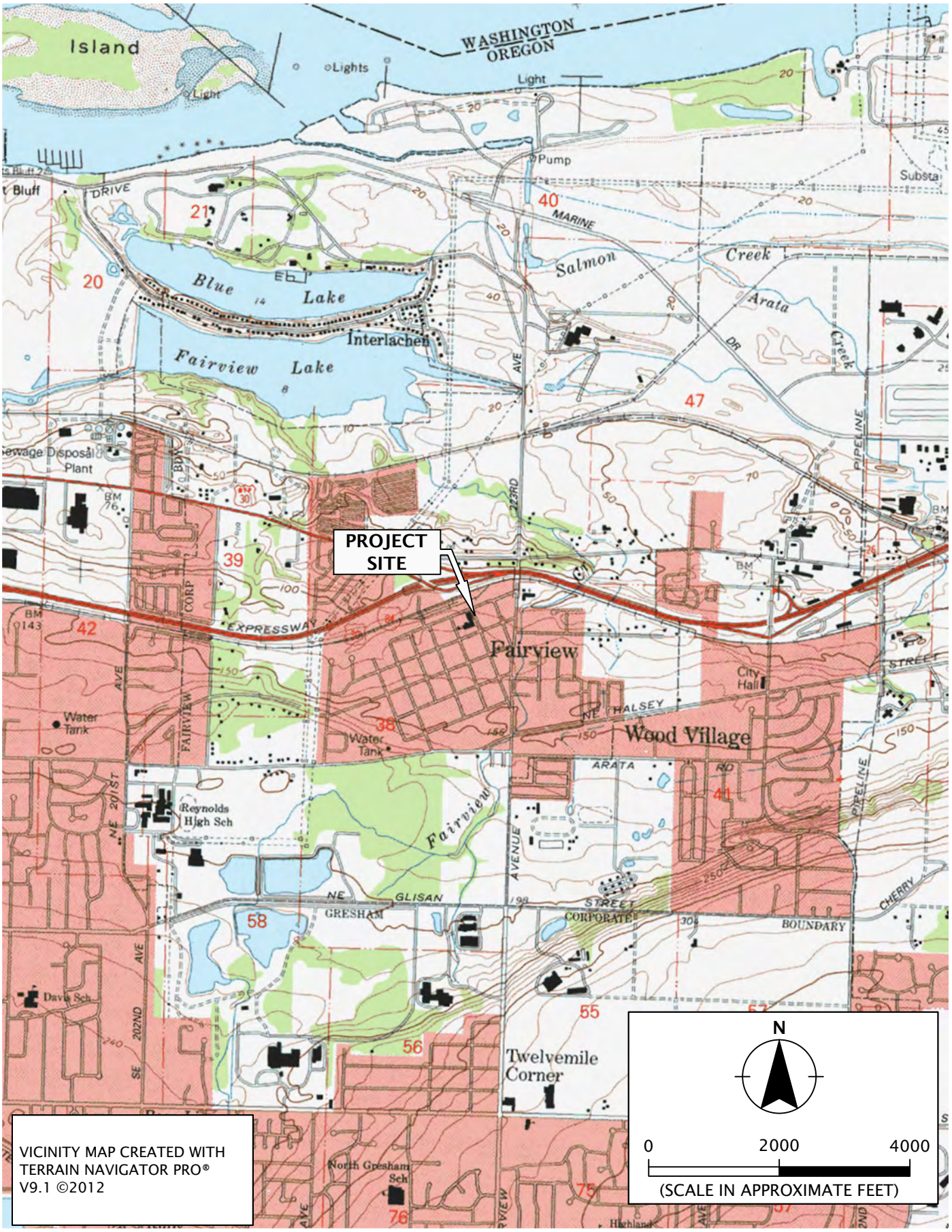
Steven Vandecoevering
Environmental Staff



Jeremy M. Zimber
Project Manager

Robert E. Belding, R.G.
Principal Geologist

FIGURES



VICINITY MAP CREATED WITH TERRAIN NAVIGATOR PRO® V9.1 ©2012

GEODESIGN INC 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSD-2-02	**VICINITY MAP**
	APRIL 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR
		FIGURE 1

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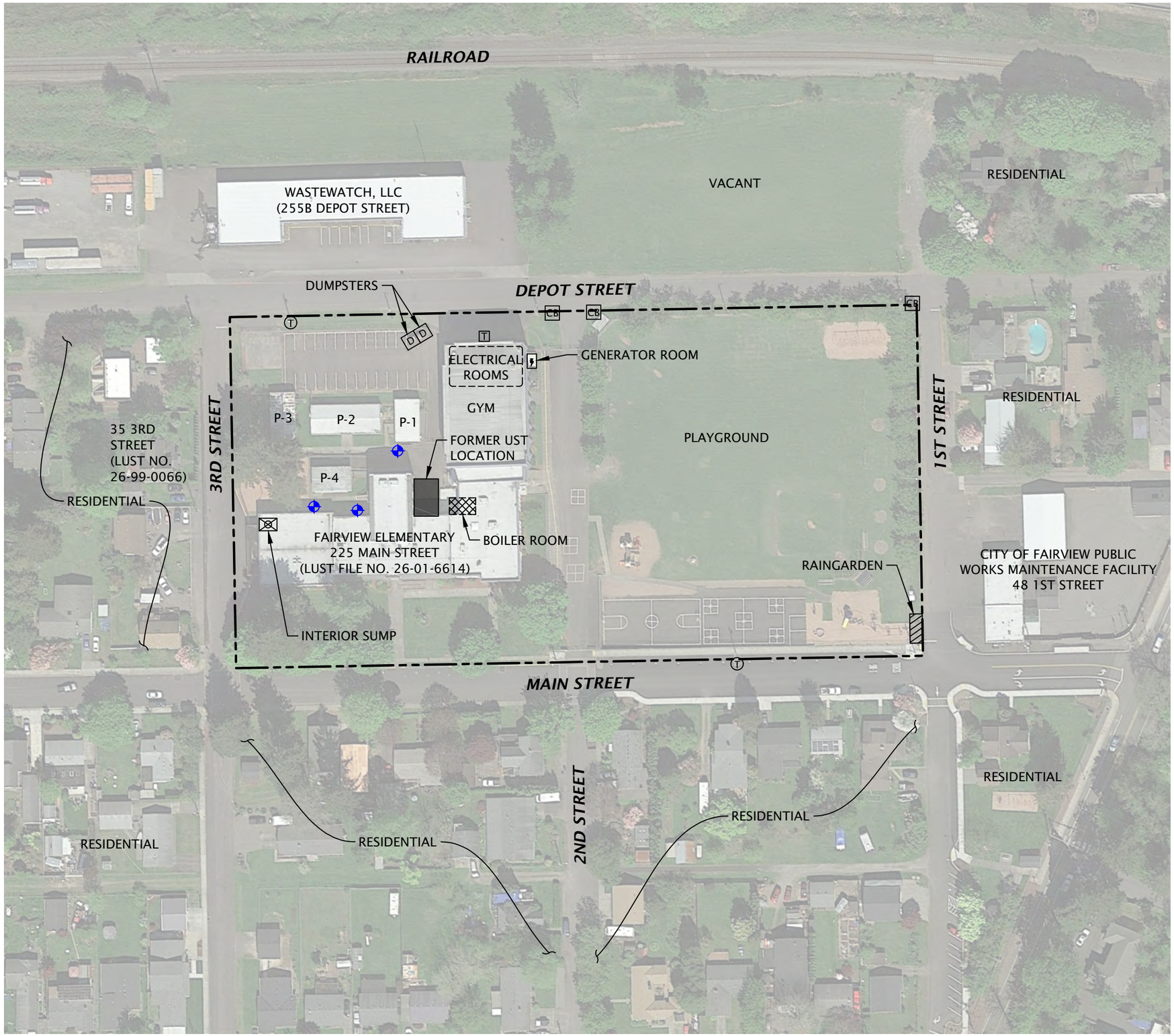
File Name: J:\M-R\ReynoldsSD\ReynoldsSD-2\ReynoldsSD-2-02\Figures\CAD\ReynoldsSD-2-02-VM01.dwg | Layout: FIGURE 1



LEGEND:

- PROJECT SITE BOUNDARY
- DRY WELL
- CB — CATCH BASIN
- T — POLE-MOUNTED TRANSFORMER
- T — PAD-MOUNTED TRANSFORMER
- P-1 — MODULAR CLASSROOM STRUCTURE

N

0 100 200

(SCALE IN FEET)

SITE PLAN BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®, APRIL 5, 2016

SITE PLAN

FIGURE 2

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

REYNOLDSD-2-02

APRIL 2016

GeoDesign
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

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File Name: J:\M-R\ReynoldsSD\ReynoldsSD-2\ReynoldsSD-2-02\Figures\CAD\ReynoldsSD-2-02-SP01.dwg | Layout: FIGURE 2

VIEW OF FAIRVIEW ELEMENTARY SCHOOL. PHOTOGRAPH TAKEN FACING WEST.

VIEW OF FORMER UST LOCATION. PHOTOGRAPH TAKEN FACING SOUTH.

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REYNOLDSSD-2-02	**PROJECT SITE PHOTOGRAPHS**	
APRIL 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR	**FIGURE 3**

VIEW OF DRY WELL NEAR BUILDING P-1. PHOTOGRAPH TAKEN FACING NORTH.

VIEW OF INTERIOR SUMP LOCATED IN THE BOILER ROOM.

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REYNOLDSSD-2-02	**PROJECT SITE PHOTOGRAPHS**	
APRIL 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR	**FIGURE 4**

APPENDIX A

GEODESIGN INC

FIRM PROFILE

Employee-owned and founded in 1997, GeoDesign provides geotechnical engineering, environmental, geological, mining, and pavement design consulting services from offices in Portland and Salem, Oregon; Vancouver, Seattle, Longview, and Tacoma, Washington; and Anaheim, California. Our team consists of more than 75 engineers, geologists, engineering geologists, environmental scientists, technical personnel, and administrative staff.

From planning and design through construction, we offer consulting services in support of commercial and residential developments, industrial facilities, property transactions, regulatory compliance, and transportation and water infrastructure systems. GeoDesign works on all phases of project development, including preliminary studies for due diligence, master planning studies, siting of new structures and utility and road alignments, regulatory studies (such as NEPA documents), comprehensive investigations for final geotechnical design, oversight of environmental clean-up activities, and construction observation and testing.

We value our client relationships and are dedicated to offering exemplary service. Our focus on communication and collaboration enables us to develop a targeted approach for our clients' project needs and objectives. In providing recommendations, we clearly present the issues, alternatives, and risks in order to assist our clients in making informed decisions. As a result, much of our business comes from repeat clients and referrals.

GEODESIGN INC

ROBERT E. BELDING, RG, LG

Principal Geologist

Bob Belding is an environmental and geological expert with more than 31 years of experience managing a diverse range of projects throughout the Pacific Northwest. His experience includes Phase I and II ESAs, site characterizations, remedial investigation/feasibility studies, design and implementation of remedial actions, and close coordination with regulatory agencies. In addition, Bob serves as an expert witness and provides senior technical review of peer and other consultants' work.

Key Projects

- South Waterfront Development – Various Projects; Portland, OR
- Proposed LaVelle Landfill Development; Portland, OR
- Dorena Dam Hydroelectric Project; Lane County, OR
- City of Portland Bureau of Environmental Services, Phase II Sewer Rehabilitation Program – Rose City Park; Portland, OR
- USDA Forest Service, On-Call Hazardous Materials Services; OR and WA
- Washington County Facilities Management; On-Call Environmental Services Contract; OR
- 333 High Street NE (Sunset Center Site); Portland, OR
- Sexton Mountain Development (former Cobbs Quarry); Beaverton, OR
- City of Salem, Minto Island Pedestrian/Bicycle Bridge; Salem, OR
- Bridgeport Village Development (former Durham Quarry); Tigard/Tualatin, OR
- Ross Island Sand & Gravel Reclamation; Portland, OR
- Former Koch's Cleaners; Beaverton, OR
- The Civic Redevelopment; Portland, OR
- David Douglas School District, David Douglas High School Pool; Portland, OR
- Confederated Tribes of the Umatilla Indian Reservation, Former Landfill Area; Pendleton, OR
- Washington County, SW Greenburg Road/SW Main Street and Highway 99W Intersection Alignment; Tigard, OR
- Oregon Military Department, Field Maintenance Shop; Salem, OR
- Bellevue Towers; Bellevue, WA
- Bellevue School District, Ardmore Elementary School; Bellevue, WA
- Bellevue School District, Bellevue High School Modernization Project; Bellevue, WA
- Proposed 316 Alaskan Way Development; Seattle, WA
- 412 Broadway Apartments (Barclay Broadway); Seattle, WA
- 1800 West Fourth Plain Boulevard Site; Vancouver, WA
- Proposed Totem Lake Mall Development; Kirkland, WA
- West 11th Street and Grand Avenue Condominiums; Los Angeles, CA
- 616 Esplanade Apartments; Redondo Beach, CA
- Wilshire Center; Los Angeles, CA
- 512 Rose Avenue Mixed-Use Development (former Pioneer Bakery Site); Venice, CA
- The Beach Club; Santa Monica, CA
- 1710 Webster Street Site; Oakland, CA

Credentials/Certifications

BS, Geology, California State University, Humboldt, 1979
Registered Geologist, OR
Licensed Geologist, WA
Oregon Association of Environmental Professionals

GEODESIGN INC

JEREMY M. ZIMBER

Project Manager

Jeremy Zimber has more than 12 years of consulting experience focused primarily on environmental due diligence and remediation, environmental compliance, environmental laboratory analysis, asbestos and lead identification, and abatement. Jeremy has conducted hazardous building materials assessments and overseen abatement efforts. He has also conducted pre-demolition surveys of buildings for both asbestos-containing materials and lead-based paint. In addition, Jeremy has conducted hundreds of Phase I ESAs nationwide for the real estate and financial industries, ranging from residential to manufacturing facilities.

Key Projects

- Clackamas County, Otty Street Realignment Project; Clackamas County, OR
- Washington County, SW Roy Rogers Road and SW Scholls Ferry Road Traffic Signals; and SW Tile Flat Road and SW Scholls Ferry Road Intersection; Washington County, OR
- New Westside Christian High School; Tigard, OR
- Pacific Northwest College of Art, Proposed GSA Building Renovation; Portland, OR
- City of Lake Oswego, Foothills District Framework Plan; Lake Oswego, OR
- The Oregonian Building; Portland, OR
- Block 296 Site (NW 22nd Avenue and NW Raleigh Street); Portland, OR
- Proposed Lowes - Comprehensive Design-Level Hazardous Material Survey; Albany, OR
- Manufacturing/Distribution Facility; Salem, OR
- SE 172nd and Sunnyside Commercial Development; Happy Valley, OR
- City of Portland Bureau of Environmental Services, Former Campbell Dry Cleaners; Portland, OR
- Coos Head Abatement and Demolition Project; Coos Bay, OR
- Washington County Facilities Management, Bridgeport Village Development (former Durham Quarry); Tigard/Tualatin, OR
- Broadway Retail Building – ACM Survey; Portland; OR
- Proposed Development – 1951 SW 6th Avenue; Portland, OR
- West Bearing Housing Project; Portland, OR
- South Waterfront – Blocks 37 and 43; Portland, OR
- Colwood Industrial Park; Portland, OR
- South Cooper Mountain Site; Beaverton, OR
- ODOT/City of Tigard, SW Main Street – Highway 99 to Railroad Corridor; Tigard, OR
- Lake-Oswego-Tigard Water Partnership, Water Supply System Expansion; Clackamas/Washington County, OR
- Capitol Mall Road Site ; Olympia, WA
- 316 Alaskan Way Site; Seattle, WA
- Proposed Corona Medical Center Expansion; Corona, CA
- 1200 Ashby Avenue Site; Berkeley, CA

Credentials/Affiliations

BS, Environmental Management, Rochester Institute of Technology, 1999
AHERA Building Inspector and Project Designer
HAZWOPER Training and Annual Updates
CCB Lead-Based Paint Inspector
Respirator Fit Test

GEODESIGN INC

STEVEN VANDECOEVERING, EIT

Environmental Staff

Steven Vandecoevering has more than two years of experience in the environmental field, and he joined GeoDesign in November 2015. Steven holds a BS from Oregon State University in Environmental Engineering. At GeoDesign, his responsibilities include assisting with groundwater sampling, monitoring of methane and associated gasses, data compilation and presentation, Phase I ESAs, hazardous building materials assessments, and field testing of potentially contaminated soil.

He has past work experience as intern with the City of Salem Public Works Department, where his responsibilities in part included inspecting waterways for flood and contamination hazards under the MS4 permit, and monitoring stormwater construction crew activities. As an intern with the Eugene Water & Electric Board's Environmental Management Department, Steven's duties included performing water quality monitoring in the McKenzie River Watershed and collecting data from local National Pollutant Discharge Elimination System permits for watershed modeling. And, as an intern at The Boeing Company's Environmental, Health, and Safety Department, he performed inspections on hazardous materials tanks and catch basins, prepared a monthly self-monitoring report for an on-site wastewater pretreatment facility, and compiled monthly metrics for hazardous material usage and waste consumption.

Key Projects

- 6850 S Eisenman Road Site; Boise, ID
- Multi-Family Retail Development; Vancouver, WA
- Proposed 5020 N Interstate Development; Portland, OR
- Grant Warehouse (NE MLK); Portland, OR
- City of Lake Oswego, Wastewater Discharge; Lake Oswego, OR
- South Waterfront – Block 37; Portland, OR
- Townsend Farms – Lot 10; Fairview, OR
- State of Oregon DAS Facility – Yellow Parking Lot Improvements; Salem, OR
- 935 NE Broadway Site; Portland, OR
- Washington County Department of Land & Use and Transportation, Spring Hill Road Bridge Replacement; Washington County, OR
- Washington County Department of Land Use & Transportation, North Durham Landfill – Phase III; Tigard, OR

Credentials/Affiliations

BS, Environmental Engineering, Oregon State University, 2009
Engineer-in-Training, WA
HAZWOPER Training and Annual Update

APPENDIX B

Fairview Elementary School
225 Main Street
Fairview, OR 97024

Inquiry Number: 4560208.2s
March 17, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

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

TABLE OF CONTENTS

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

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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

225 MAIN STREET
FAIRVIEW, OR 97024

COORDINATES

Latitude (North):	45.5398770 - 45° 32' 23.55''
Longitude (West):	122.4358690 - 122° 26' 9.12''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	544043.9
UTM Y (Meters):	5042864.0
Elevation:	126 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5992265 CAMAS, WA
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120706
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
225 MAIN STREET
FAIRVIEW, OR 97024

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	HEATING OIL TANK	201 MAIN ST	LUST		TP
A2	FAIRVIEW ELEMENTARY	201 MAIN ST	RGA LUST		TP
A3	FAIRVIEW ELEMENTARY	225 MAIN STREET	ICIS, FINDS, ECHO		TP
A4	HEATING OIL TANK	201 MAIN ST	RGA LUST		TP
Reg	EAST MULTNOMAH COUNT		AOCONCERN	Same	2335, 0.442, WNW
Reg	COLUMBIA SLOUGH	PORTLAND RD	CERCLIS-NFRAP	Same	655, 0.124, East
B5	HEATING OIL TANK	35 THIRD ST	LUST	Higher	132, 0.025, SSE
6	WASTEWATCH LLC	255B DEPOT ST	RCRA NonGen / NLR, PADS	Lower	207, 0.039, NNW
B7	COHEN ISADOR	113 2D	EDR Hist Cleaner	Higher	234, 0.044, SSE
8	MORRISON HAT RENEWAL	144 2D	EDR Hist Cleaner	Higher	360, 0.068, SSE
C9	NORBTHWEST WELDING A	88 1ST	EDR Hist Auto	Lower	386, 0.073, East
C10	FAIRVIEW CITY OF	48 FIRST ST	RCRA-CESQG	Lower	387, 0.073, ENE
D11	EASTBANK RIVERFRONT	1S/1E/3	ECSI, VCP, FINDS, ECHO	Lower	499, 0.095, NNE
D12	DOANE LAKE STUDY ARE	1N/1W/S13 & 12	ECSI, FINDS, ECHO	Lower	499, 0.095, NNE
D13	OAKS BOTTOM LANDFILL	1S/1E/S23	ECSI, VCP, FINDS, ECHO	Lower	499, 0.095, NNE
14	ITO SHIRO	147 1ST	EDR Hist Cleaner	Higher	508, 0.096, ESE
15	PIHAS GEO	122 3D	EDR Hist Cleaner	Higher	532, 0.101, SSW
16	HEATING OIL TANK	20 DEPOT STREET	LUST, OR HAZMAT	Lower	610, 0.116, NE
17	HEATING OIL TANK	35 BRIDGE ST	LUST	Lower	795, 0.151, East
18	HEATING OIL TANK	160 4TH ST	LUST	Higher	809, 0.153, SW
E19	MORROW'S FAIRVIEW SH	22231 NE SANDY BLVD	UST	Lower	1032, 0.195, NNE
20	FAIRVIEW CITY OF	300 HARRISON ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	1037, 0.196, South
E21	COASTAL COATINGS INC	22222 NE SANDY BLVD	RCRA NonGen / NLR, FINDS, ECHO	Lower	1043, 0.198, NNE
22	HEATING OIL TANK	1920 FAIRVIEW DR	LUST	Higher	1062, 0.201, SSE
23	HEATING OIL TANK	1802 FAIRVIEW AVE	LUST	Higher	1341, 0.254, SSE
24	HEATING OIL TANK	225 BRIDGE ST	LUST	Lower	1718, 0.325, East
25	FAIRVIEW DRINKING WA	I-84 AND NE FAIRVIEW	ECSI	Lower	1754, 0.332, East
F26	SMITH, JOHN T./ARSAN	1605 NE 223 AVE	LUST	Higher	1889, 0.358, SSE
F27	FAIRVIEW CHEVRON	1605 NE FAIRVIEW AVE	ECSI	Higher	1889, 0.358, SSE
28	HEATING OIL TANK	305 7TH	LUST	Higher	1958, 0.371, SW
F29	FAIRVIEW VLG SITE	22000 BLK OF NE HALS	HIST LF, RCRA NonGen / NLR, FINDS, ECHO	Higher	1960, 0.371, SSE
30	HEATING OIL TANK	22820 NE SANDY BLVD	LUST	Lower	2164, 0.410, ENE
31	PORTLAND HOSPITAL SE	22820 NE HALSEY ST.	ECSI, VCP, NPDES, UIC	Higher	2374, 0.450, SE
32	HEATING OIL TANK	21523 NE HALSEY	LUST	Higher	2590, 0.491, SW
33	TOWNSEND - ZAKULA BE	23012 NE SANDY BLVD.	ECSI, VCP, NPDES	Lower	2937, 0.556, ENE
34	DIRT & AGGREGATE INT	20905 NE SANDY BLVD	CERCLIS-NFRAP, ECSI, RCRA NonGen / NLR, FINDS,...	Lower	3268, 0.619, WNW
35	TOWNSEND BUSINESS PA	NE TOWNSEND WAY	ECSI, CRL, ENG CONTROLS, VCP, BROWNFIELDS, OR...	Lower	3566, 0.675, ENE
36	DRY CLEANING CHEMICA	20757 NE SANDY BLVD.	ECSI	Lower	3664, 0.694, WNW
37	LSI CAMPUS	22315 NE GLISAN ST.	ECSI, CRL, INST CONTROL, VCP, BROWNFIELDS, UIC	Higher	4481, 0.849, South

MAPPED SITES SUMMARY

Target Property Address:
225 MAIN STREET
FAIRVIEW, OR 97024

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
38	HEATING OIL TANK	2525 NE 238TH DRIVE	ECSI, LUST, VCP	Lower	4486, 0.850, East
39	ODOT - VACANT PROPER	I-84 AND 238TH DRIVE	ECSI, VCP	Lower	5020, 0.951, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
HEATING OIL TANK 201 MAIN ST FAIRVIEW, OR 97024	LUST Facility ID: 26-01-6614	N/A
FAIRVIEW ELEMENTARY 201 MAIN ST FAIRVIEW, OR	RGA LUST Facility ID: 26-01-6614	N/A
FAIRVIEW ELEMENTARY 225 MAIN STREET FAIRVIEW, OR 97024	ICIS FRS ID:: 110013711206 FINDS Registry ID:: 110013711206 ECHO	N/A
HEATING OIL TANK 201 MAIN ST FAIRVIEW, OR	RGA LUST Facility ID: 26-01-6614	N/A

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

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System

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

Federal ERNS list

ERNS ..... Emergency Response Notification System

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

SWF/LF ..... Solid Waste Facilities List

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing
AST ..... Aboveground Storage Tanks
INDIAN UST ..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS ..... Engineering Controls Recorded at ESCI Sites
INST CONTROL ..... Institutional Controls Recorded at ESCI Sites

State and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ..... Brownfields Projects

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY	Recycling Facility Location Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	National Clandestine Laboratory Register
CDL	Uninhabitable Drug Lab Properties
US CDL	Clandestine Drug Labs

Local Land Records

LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Spill Database
OR HAZMAT	Hazmat/Incidents
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
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
AIRS ---------- Oregon Title V Facility Listing
COAL ASH ---------- Coal Ash Disposal Sites Listing
DRYCLEANERS ---------- Drycleaning Facilities
Financial Assurance ---------- Financial Assurance Information Listing
HSIS ---------- Hazardous Substance Information Survey
MANIFEST ---------- Manifest Information
NPDES ---------- Wastewater Permits Database
UIC ---------- Underground Injection Control Program Database
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS ---------- Recovered Government Archive State Hazardous Waste Facilities List
RGA LF ---------- Recovered Government Archive Solid Waste Facilities List

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 CERCLIS NFRAP site list

CERCLIS-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

A review of the CERCLIS-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there

is 1 CERCLIS-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLUMBIA SLOUGH	PORTLAND RD	E 0 - 1/8 (0.124 mi.)	0	12

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 06/09/2015 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FAIRVIEW CITY OF	48 FIRST ST	ENE 0 - 1/8 (0.073 mi.)	C10	16

State- and tribal - equivalent CERCLIS

ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the ECSI list, as provided by EDR, and dated 01/01/2016 has revealed that there are 13 ECSI sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FAIRVIEW CHEVRON Investigation: No Further Action State ID Number: 5313	1605 NE FAIRVIEW AVE	SSE 1/4 - 1/2 (0.358 mi.)	F27	111
PORTLAND HOSPITAL SE Investigation: No Further Action State ID Number: 5314	***22820 NE HALSEY ST.***	***SE 1/4 - 1/2 (0.450 mi.)***	***31***	***121***
LSI CAMPUS Investigation: Listed on the CRL/Inventory State ID Number: 1764	***22315 NE GLISAN ST.***	***S 1/2 - 1 (0.849 mi.)***	***37***	***178***

Lower Elevation	Address	Direction / Distance	Map ID	Page
EASTBANK RIVERFRONT Investigation: Suspect State ID Number: 2414	***1S/1E/3***	***NNE 0 - 1/8 (0.095 mi.)***	***D11***	***18***
DOANE LAKE STUDY ARE Investigation: Suspect State ID Number: 36	***1N/1W/S13 & 12***	***NNE 0 - 1/8 (0.095 mi.)***	***D12***	***25***
OAKS BOTTOM LANDFILL	***1S/1E/S23***	***NNE 0 - 1/8 (0.095 mi.)***	***D13***	***45***

Investigation: Suspect State ID Number: 1006				
FAIRVIEW DRINKING WA Investigation: Suspect State ID Number: 5279	I-84 AND NE FAIRVIEW	E 1/4 - 1/2 (0.332 mi.)	25	99
TOWNSEND - ZAKULA BE Investigation: No Further Action State ID Number: 4641	***23012 NE SANDY BLVD.***	***ENE 1/2 - 1 (0.556 mi.)***	***33***	***125***
DIRT & AGGREGATE INT Investigation: No Further Action State ID Number: 874	***20905 NE SANDY BLVD***	***WNW 1/2 - 1 (0.619 mi.)***	***34***	***129***
TOWNSEND BUSINESS PA Investigation: No Further Action Investigation: Listed on the CRL/Inventory State ID Number: 4230 State ID Number: 4785 State ID Number: 5066	***NE TOWNSEND WAY***	***ENE 1/2 - 1 (0.675 mi.)***	***35***	***138***
DRY CLEANING CHEMICA Investigation: Suspect State ID Number: 788	20757 NE SANDY BLVD.	WNW 1/2 - 1 (0.694 mi.)	36	173
HEATING OIL TANK Investigation: No Further Action State ID Number: 4182	***2525 NE 238TH DRIVE***	***E 1/2 - 1 (0.850 mi.)***	***38***	***192***
ODOT - VACANT PROPER Investigation: No Further Action State ID Number: 3320	***I-84 AND 238TH DRIVE***	***E 1/2 - 1 (0.951 mi.)***	***39***	***197***

CRL: Sites that are or may be contaminated and may require cleanup.

A review of the CRL list, as provided by EDR, and dated 02/01/2016 has revealed that there are 2 CRL sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LSI CAMPUS Facility Status: No Further Action (Conditional) Facility Id: 1764	***22315 NE GLISAN ST.***	***S 1/2 - 1 (0.849 mi.)***	***37***	***178***

Lower Elevation	Address	Direction / Distance	Map ID	Page
TOWNSEND BUSINESS PA Facility Status: Prospective Purchaser Agreement Facility Id: 4230	***NE TOWNSEND WAY***	***ENE 1/2 - 1 (0.675 mi.)***	***35***	***138***

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 LUST Database List.

A review of the LUST list, as provided by EDR, and dated 01/13/2016 has revealed that there are 11

LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HEATING OIL TANK Facility ID: 26-99-0066 Cleanup Complete: 03/31/1999	35 THIRD ST	SSE 0 - 1/8 (0.025 mi.)	B5	13
HEATING OIL TANK Facility ID: 26-01-8390 Cleanup Complete: 12/28/2001	160 4TH ST	SW 1/8 - 1/4 (0.153 mi.)	18	90
HEATING OIL TANK Facility ID: 26-02-1212 Cleanup Complete: 12/23/2002	1920 FAIRVIEW DR	SSE 1/8 - 1/4 (0.201 mi.)	22	99
HEATING OIL TANK Facility ID: 26-04-0597 Cleanup Complete: 08/09/2004	1802 FAIRVIEW AVE	SSE 1/4 - 1/2 (0.254 mi.)	23	99
SMITH, JOHN T./ARSAN Facility ID: 26-92-0257 Cleanup Complete: 07/11/1996	1605 NE 223 AVE	SSE 1/4 - 1/2 (0.358 mi.)	F26	111
HEATING OIL TANK Facility ID: 26-96-0493 Cleanup Complete: 09/10/1997	305 7TH	SW 1/4 - 1/2 (0.371 mi.)	28	117
HEATING OIL TANK Facility ID: 26-01-5244 Cleanup Complete: 06/13/2001	21523 NE HALSEY	SW 1/4 - 1/2 (0.491 mi.)	32	125

Lower Elevation	Address	Direction / Distance	Map ID	Page
HEATING OIL TANK Facility ID: 26-05-0987 Cleanup Complete: 08/30/2005	***20 DEPOT STREET***	***NE 0 - 1/8 (0.116 mi.)***	***16***	***88***
HEATING OIL TANK Facility ID: 26-01-5929 Cleanup Complete: 11/21/2003	35 BRIDGE ST	E 1/8 - 1/4 (0.151 mi.)	17	90
HEATING OIL TANK Facility ID: 26-09-0948 Cleanup Complete: 02/08/2010	225 BRIDGE ST	E 1/4 - 1/2 (0.325 mi.)	24	99
HEATING OIL TANK Facility ID: 26-04-1833 Cleanup Complete: 10/21/2004	22820 NE SANDY BLVD	ENE 1/4 - 1/2 (0.410 mi.)	30	121

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 UST List on Disk.

A review of the UST list, as provided by EDR, and dated 01/26/2016 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MORROW'S FAIRVIEW SH Facility ID: 5661	22231 NE SANDY BLVD	NNE 1/8 - 1/4 (0.195 mi.)	E19	91

State and tribal voluntary cleanup sites

VCP: Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

A review of the VCP list, as provided by EDR, and dated 01/05/2016 has revealed that there are 3 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PORTLAND HOSPITAL SE ECS Site ID: 5314	***22820 NE HALSEY ST.***	***SE 1/4 - 1/2 (0.450 mi.)***	***31***	***121***

Lower Elevation	Address	Direction / Distance	Map ID	Page
EASTBANK RIVERFRONT ECS Site ID: 2414	***1S/1E/3***	***NNE 0 - 1/8 (0.095 mi.)***	***D11***	***18***
OAKS BOTTOM LANDFILL ECS Site ID: 1006	***1S/1E/S23***	***NNE 0 - 1/8 (0.095 mi.)***	***D13***	***45***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: A list of solid waste disposal sites that have been closed for a long while.

A review of the HIST LF list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 HIST LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FAIRVIEW VLG SITE Permit Number: 69	***22000 BLK OF NE HALS***	***SSE 1/4 - 1/2 (0.371 mi.)***	***F29***	***117***

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN: Oregon AOC Areas Of Concern.

A review of the AOCONCERN list, as provided by EDR, and dated 08/10/2005 has revealed that there is 1 AOCONCERN site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EAST MULTNOMAH COUNT		WNW 1/4 - 1/2 (0.442 mi.)	0	12

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 06/09/2015 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FAIRVIEW CITY OF	***300 HARRISON ST***	***S 1/8 - 1/4 (0.196 mi.)***	***20***	***91***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WASTEWATCH LLC	***255B DEPOT ST***	***NNW 0 - 1/8 (0.039 mi.)***	***6***	***13***
COASTAL COATINGS INC	***22222 NE SANDY BLVD***	***NNE 1/8 - 1/4 (0.198 mi.)***	***E21***	***95***

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 is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORBTHWEST WELDING A	88 1ST	E 0 - 1/8 (0.073 mi.)	C9	16

EDR Hist Cleaner: 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.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 4 EDR Hist

EXECUTIVE SUMMARY

Cleaner sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COHEN ISADOR	113 2D	SSE 0 - 1/8 (0.044 mi.)	B7	15
MORRISON HAT RENEWAL	144 2D	SSE 0 - 1/8 (0.068 mi.)	8	16
ITO SHIRO	147 1ST	ESE 0 - 1/8 (0.096 mi.)	14	88
PIHAS GEO	122 3D	SSW 0 - 1/8 (0.101 mi.)	15	88

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
PORTLAND WATER BUREAU WELL #14	ECSI, VCP
TRI-MET SOUTH CORRIDOR EXTENSION	ECSI, VCP
V.A.- COLUMBIA SOUTH SHORE WELLFIE	ECSI
M & D AUTOMOTIVE	LUST, UST

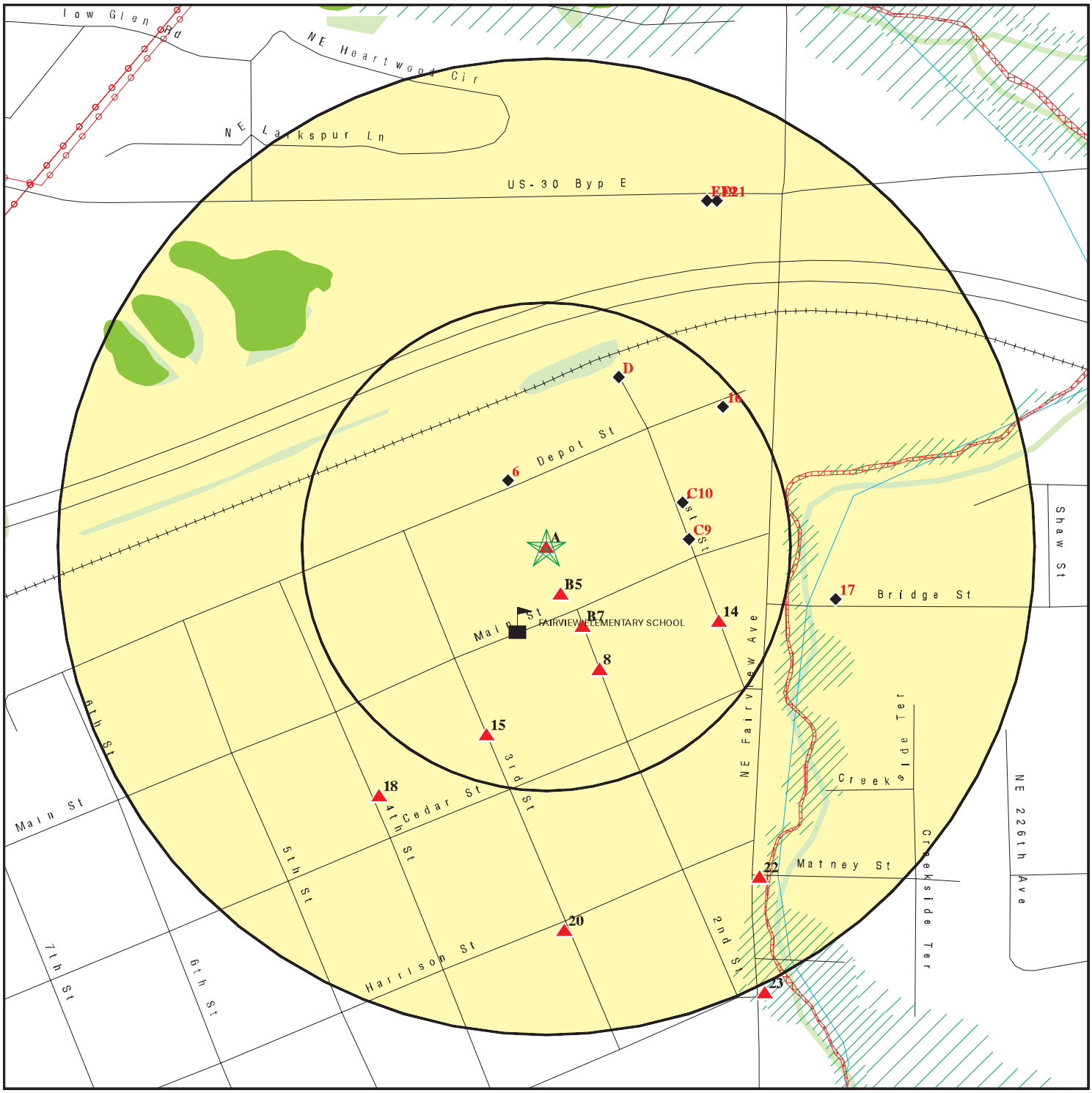
OVERVIEW MAP - 4560208.2S

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

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: Fairview Elementary School ADDRESS: 225 Main Street Fairview OR 97024 LAT/LONG: 45.539877 / 122.435869	CLIENT: GeoDesign Inc. CONTACT: Steven Vandecoevering INQUIRY #: 4560208.2s DATE: March 17, 2016 5:16 pm

DETAIL MAP - 4560208.2S



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

National Wetland Inventory

State Wetlands

Areas of Concern

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: Fairview Elementary School	CLIENT: GeoDesign Inc.
ADDRESS: 225 Main Street Fairview OR 97024	CONTACT: Steven Vandecoevering INQUIRY #: 4560208.2s
LAT/LONG: 45.539877 / 122.435869	DATE: March 17, 2016 5:18 pm

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	TP		NR	NR	NR	NR	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
CERCLIS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
CERCLIS-NFRAP	0.500		1	0	0	NR	NR	1
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		1	0	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								
ECSI	1.000		3	0	3	7	NR	13
CRL	1.000		0	0	0	2	NR	2
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								
LUST	0.500	1	2	3	6	NR	NR	12
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		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		2	0	1	NR	NR	3
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								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	1	NR	NR	1
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	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
AOCONCERN	1.000		0	0	1	0	NR	1
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
OR HAZMAT	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	2	NR	NR	NR	3
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

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
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
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	1	NR	NR	NR	NR	NR	1
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
FINDS	TP	1	NR	NR	NR	NR	NR	1
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HSIS	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	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		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		4	NR	NR	NR	NR	4
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	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
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	2	NR	NR	NR	NR	NR	2
- Totals --		6	15	6	12	9	0	48

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **HEATING OIL TANK** **LUST** **S105075771**
Target **201 MAIN ST** **N/A**
Property **FAIRVIEW, OR 97024**

Site 1 of 4 in cluster A

Actual:
126 ft.

LUST:

Region:	North Western Region
Facility ID:	26-01-6614
Cleanup Received Date:	08/02/2001
Cleanup Start Date:	08/02/2001
Cleanup Complete Date:	**Not reported**
Decode for Region:	**North West Region**

A2 **FAIRVIEW ELEMENTARY SCHOOL** **RGA LUST** **S115365067**
Target **201 MAIN ST** **N/A**
Property **FAIRVIEW, OR**

Site 2 of 4 in cluster A

Actual:
126 ft.

RGA LUST:

2011	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2010	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2009	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2008	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2007	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2006	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2005	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2004	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2003	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST
2002	FAIRVIEW ELEMENTARY SCHOOL	201 MAIN ST

A3 **FAIRVIEW ELEMENTARY SCHOOL** **ICIS** **1006800489**
Target **225 MAIN STREET** **FINDS** **N/A**
Property **FAIRVIEW, OR 97024** **ECHO**

Site 3 of 4 in cluster A

Actual:
126 ft.

ICIS:

Enforcement Action ID:	10-2001-0002
FRS ID:	110013711206
Program ID:	OR-DEQ 39347
Action Name:	REYNOLDS SCHOOL DISTRICT
Full Address:	225 MAIN STREET FAIRVIEW OR 97024-3704
State:	Oregon
Facility Name:	FAIRVIEW ELEMENTARY SCHOOL
Facility Address:	225 MAIN STREET FAIRVIEW, OR 97024-3704
Enforcement Action Type:	TSCA 16 Action For Penalty

FAIRVIEW ELEMENTARY SCHOOL (Continued) **1006800489**

Facility County: MULTNOMAH
EPA Region #: 10

Enforcement Action ID: 10-2001-0002
FRS ID: 110013711206
Program ID: FRS 110013711206
Action Name: REYNOLDS SCHOOL DISTRICT
Full Address: 225 MAIN STREET FAIRVIEW OR 97024-3704
State: Oregon
Facility Name: FAIRVIEW ELEMENTARY SCHOOL
Facility Address: 225 MAIN STREET
FAIRVIEW, OR 97024-3704
Enforcement Action Type: TSCA 16 Action For Penalty
Facility County: MULTNOMAH
EPA Region #: 10

Program ID: FRS 110013711206
Facility Name: FAIRVIEW ELEMENTARY SCHOOL
Address: 225 MAIN STREET
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: OR-DEQ 39347
Facility Name: FAIRVIEW ELEMENTARY SCHOOL
Address: 225 MAIN STREET
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

FINDS:

Registry ID: 110013711206

Environmental Interest/Information System

OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region

FAIRVIEW ELEMENTARY SCHOOL (Continued) **1006800489**

that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

ECHO:

Envid:	1006800489
Registry ID:	110013711206
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	N
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.53988
Longitude:	-122.43587
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	Not reported
Derived STCT FPS:	41051
Derived Zip:	97024
Derived CD113:	03
Derived CB2010:	410510101001003
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	12/12/2000
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported

FAIRVIEW ELEMENTARY SCHOOL (Continued) **1006800489**

CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported

FAIRVIEW ELEMENTARY SCHOOL (Continued) **1006800489**

TRI Reporter in Past:	Not reported
FEC Case IDS:	10-2001-0002
FEC Number of Cases:	Not reported
FEC Last Case Date:	12/12/2000
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110013711206
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	12/12/2000
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

A4
Target Property
Actual: 126 ft.

HEATING OIL TANK **RGA LUST** **S115377957**
201 MAIN ST **N/A**
FAIRVIEW, OR

Site 4 of 4 in cluster A

RGA LUST:
2012 HEATING OIL TANK 201 MAIN ST

Areas of Concern
WNW
1/4-1/2
2335 ft.

EAST MULTNOMAH COUNTY AREA GROUNDWATER **AOCONCERN** **1005440034**
N/A
GRESHAM, OR 97030

AOCONCERN:
OR Areas of concern.

Areas of Concern
East
< 1/8
655 ft.

COLUMBIA SLOUGH **CERCLIS-NFRAP** **1003880262**
PORTLAND RD **ORD980723076**
PORTLAND, OR 97218

CERCLIS-NFRAP:

Site ID:	1000493
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY

COLUMBIA SLOUGH (Continued) **1003880262**

Date Started: / /
Date Completed: 07/01/79
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 03/01/80
Date Completed: 03/01/80
Priority Level: Low priority for further assessment

Action: PRELIMINARY ASSESSMENT
Date Started: 12/15/88
Date Completed: 12/15/88
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 12/15/88
Priority Level: Not reported

B5 **HEATING OIL TANK** **LUST** **S103838767**
SSE **35 THIRD ST** **N/A**
< 1/8 **FAIRVIEW, OR 97024**
0.025 mi.
132 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
132 ft.

LUST:
Region: North Western Region
Facility ID: 26-99-0066
Cleanup Received Date: 01/19/1999
Cleanup Start Date: 01/15/1999
Cleanup Complete Date: 03/31/1999
Decode for Region: North West Region

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6 **WASTEWATCH LLC** **RCRA NonGen / NLR** **1015757984**
NNW **255B DEPOT ST** **PADS** **ORQ000006221**
< 1/8 **FAIRVIEW, OR 97024**
0.039 mi.
207 ft.

Relative:
Lower

Actual:
121 ft.

RCRA NonGen / NLR:
Date form received by agency: 11/01/2011
Facility name: WASTEWATCH LLC
Facility address: 255B DEPOT ST
FAIRVIEW, OR 97024
EPA ID: ORQ000006221
Mailing address: PO BOX 430
TROUTDALE, OR 97060
Contact: TIM FERRICK
Contact address: PO BOX 430
TROUTDALE, OR 97060
Contact country: US
Contact telephone: (503) 465-8683
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

WASTEWATCH LLC (Continued) **1015757984**

Owner/Operator Summary:
- Owner/operator name: WASTEWATCH LLC
- Owner/operator address: PO BOX 430
  TROUTDALE, OR 97060
- Owner/operator country: US
- Owner/operator telephone: (503) 465-8683
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 09/01/1996
- Owner/Op end date: Not reported

- Owner/operator name: WASTEWATCH LLC
- Owner/operator address: PO BOX 430
  TROUTDALE, OR 97060
- Owner/operator country: US
- Owner/operator telephone: (503) 465-8683
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 11/01/2011
- 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: Yes
- 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

. Waste code: NA
. Waste name: NA

Historical Generators:
- Date form received by agency: 03/02/2009
- Site name: WASTEWATCH LLC
- Classification: Not a generator, verified

- Date form received by agency: 10/10/2000
- Site name: WASTEWATCH LLC
- Classification: Not a generator, verified

- Date form received by agency: 04/10/1998
- Site name: ELTEX ENVIRONMENTAL SERVICES
- Classification: Not a generator, verified

- Date form received by agency: 05/13/1997
- Site name: ELTEX ENVIRONMENTAL SERVICES

WASTEWATCH LLC (Continued) **1015757984**

Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

PADS:

EPAID:	ORQ000006221
Facility name:	WASTE WATCH INC.
Facility Address:	878 NW DUNBAR AVE. TROUTDALE, OR 97060
Facility country:	US
Generator:	No
Storer:	No
Transporter:	Yes
Disposer:	No
Research facility:	No
Smelter:	No
Facility owner name:	TIM FERRICK
Contact title:	Not reported
Contact name:	TIM FERRICK
Contact tel:	(503)465-8683
Contact extension:	Not reported
Mailing address:	P.O. BOX 430 TROUTDALE, OR 97060
Mailing country:	US
Cert. title:	Not reported
Cert. name:	Not reported
Cert. date:	08/14/2003
Date received:	08/28/2003

B7 **COHEN ISADOR** **EDR Hist Cleaner** **1009475779**
SSE **113 2D** **N/A**
< 1/8 **PORTLAND, OR**
0.044 mi.
234 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
134 ft.

EDR Historical Cleaners:

Name:	COHEN ISADOR
Year:	1924
Type:	CLEANERS, DYERS AND PRESSERS
Name:	OREGON CLEANERS AND TAILORS
Year:	1930
Type:	CLOTHES PRESSERS AND CLEANERS

8
SSE
< 1/8
0.068 mi.
360 ft.

MORRISON HAT RENEWAL SHOP
144 2D
PORTLAND, OR

EDR Hist Cleaner

1009477100
N/A

Relative:
Higher

Actual:
135 ft.

EDR Historical Cleaners:
Name: MORRISON HAT RENEWAL SHOP
Year: 1930
Type: HAT CLEANERS AND BLOCKERS

C9
East
< 1/8
0.073 mi.
386 ft.

NORBTHWEST WELDING AND SUPPLY CO
88 1ST
PORTLAND, OR

Site 1 of 2 in cluster C

EDR Hist Auto

1009495871
N/A

Relative:
Lower

Actual:
123 ft.

EDR Historical Auto Stations:
Name: NORBTHWEST WELDING AND SUPPLY CO
Year: 1924
Type: AUTOMOBILE REPAIRING

C10
ENE
< 1/8
0.073 mi.
387 ft.

FAIRVIEW CITY OF
48 FIRST ST
FAIRVIEW, OR 97024

Site 2 of 2 in cluster C

RCRA-CESQG

1005418066
ORQ000019141

Relative:
Lower

Actual:
120 ft.

RCRA-CESQG:
Date form received by agency: 12/31/2003
Facility name: FAIRVIEW CITY OF
Facility address: 48 FIRST ST
FAIRVIEW, OR 97024
EPA ID: ORQ000019141
Mailing address: PO BOX 337
FAIRVIEW, OR 97024
Contact: BOB COCHRAN
Contact address: PO BOX 337
FAIRVIEW, OR 97024
Contact country: US
Contact telephone: (503) 674-6235
Contact email: Not reported
EPA Region: 10
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

FAIRVIEW CITY OF (Continued) **1005418066**

Owner/Operator Summary:
Owner/operator name: FAIRVIEW, CITY OF
Owner/operator address: PO BOX 337
FAIRVIEW, OR 97024
Owner/operator country: US
Owner/operator telephone: (503) 665-7929
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 10/23/2001
Owner/Op end date: Not reported

Owner/operator name: FAIRVIEW, CITY OF
Owner/operator address: PO BOX 337
FAIRVIEW, OR 97024
Owner/operator country: US
Owner/operator telephone: (503) 665-7929
Legal status: County
Owner/Operator Type: Operator
Owner/Op start date: 01/23/2001
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

. Waste code: NA
. Waste name: NA

Historical Generators:
Date form received by agency: 01/02/2003
Site name: FAIRVIEW CITY OF
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/15/2002
Site name: FAIRVIEW CITY OF
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/23/2001
Site name: FAIRVIEW CITY OF
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

D11 EASTBANK RIVERFRONT PROJECT **ECSI 1006853222**
NNE 1S/1E/3 **VCP N/A**
< 1/8 PORTLAND, OR 97214 **FINDS**
0.095 mi. **ECHO**
499 ft. Site 1 of 3 in cluster D

Relative:
Lower

Actual:
115 ft.

ECSI:

State ID Number:	2414
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	Suspect
FACA ID:	40809
Further Action:	0
Lat/Long (dms):	45 30 43.20 / -122 40 3.40
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	S
Range Coord:	1.00
Range Zone:	E
Section Coord:	3
Qtr Section:	DA
Tax Lots:	7100,1400,1500,1501,1600
Size:	approx 6.3 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	06/22/2015
Created Date:	10/04/1999
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name: Eastbank Esplanade
Alias Name: Portland Development Commission (PDC) - East Bank

Hazardous Release:

Substance ID.:	121994
Haz Release ID:	382197
Qty Released:	Not reported
Date Released:	Not reported
Update Date:	10/20/1999
Update By:	Not reported
Substance Code:	ECD222
Substance Name:	PETROLEUM
Substance Abbrev.:	Not reported
Substance Category ID:	8533
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8533
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported

EASTBANK RIVERFRONT PROJECT (Continued) **1006853222**

Created Date: 12/17/2002
Sampling Result ID: 340815
Feature Id: Not reported
Hazard Release Id: 382197
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 02/01/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 900 mg/kg
Last Update By: jmw
Update Date: 10/20/1999
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 382198
Qty Released: Not reported
Date Released: Not reported
Update Date: 10/20/1999
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Sampling Result ID: 340816
Feature Id: Not reported
Hazard Release Id: 382198
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 02/01/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1,350 mg/kg
Last Update By: jmw

EASTBANK RIVERFRONT PROJECT (Continued) **1006853222**

Update Date: 10/20/1999
Decode for MediumID: Soil

Narrative:
NARR ID: 5738640
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: MGREENB
Updated Date: 03/15/2006
Decode for NarcdID: Remedial Action
NARR Comments: (10/4/99 SAM/VCP) Requests No Further Action (NFA) from ICP. (10/20/99 SAM/VCP) ICP only, site is divided into 16 parcels. Initial DEQ review is for Parcels 4b, 5abc, and 6abc. (12/6/99 SAM/VCP) DEQ issued a NFA determination for Parcels 4b, 5abc, and 6abc. Ongoing work expected for the remaining parcels.

Administrative Action:
Action ID: 9413
Region: Northwestern Region
Complete Date: 12/13/1999
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/20/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Closeout activities on completed project
Further Action: 0
Comments: Not reported

Action ID: 9459
Region: Northwestern Region
Complete Date: 12/06/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 10/04/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported

EASTBANK RIVERFRONT PROJECT (Continued) **1006853222**

Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 12/06/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: Not reported
Comments: ICP only

Action ID: 9440
Region: Northwestern Region
Complete Date: 09/28/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9433
Region: Northwestern Region
Complete Date: 09/28/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: INDEPENDENT CLEANUP
Further Action: Not reported
Comments: Not reported

Action ID: 9463
Region: Northwestern Region
Complete Date: 12/06/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: PNFA applies to Parcels 4b, 5abc, and 6abc.

EASTBANK RIVERFRONT PROJECT (Continued) **1006853222**

Operations:
- Operation Id: 133617
- Operation Status: Inactive
- Common Name: Eastbank Riverfront Project
- Yrs of Operation: unknown
- Comments: Not reported
- Updated Date: 10/04/1999
- Updated By: jmw
- Decode for OpstatID: Inactive

VCS:
- ECS Site ID: 2414
- Facility Size: approx 6.3 acres
- Action: Closeout activities on completed project
- Start Date: 12/13/1999
- End Date: 12/13/1999
- Facility Status: Completed
- Program: VCS
- Latitude: 45.512
- Longitude: -122.6675

FINDS:

Registry ID: 110014153021

Environmental Interest/Information System
OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

ECHO:
- Envid: 1006853222
- Registry ID: 110014153021
- FIPS Code: 41051
- EPA Region: 10
- Indian Country Flag: N
- Federal Flag: Not reported
- US Mexico Border Flag: Not reported
- Chesapeake Bay Flag: Not reported
- NAA Flag: Not reported
- Latitude: 45.5135
- Longitude: -122.6683
- Map Icon: NONE-UNK-MN-N.png
- Collection Method: Not reported
- Reference Point: Not reported
- Accuracy Meters: 17430
- Derived Tribes: Not reported
- Derived Huc: 17090012
- Derived WBD: 170900120202
- Derived STCT FPS: 41051
- Derived Zip: 97214

EASTBANK RIVERFRONT PROJECT (Continued) **1006853222**

Derived CD113:	03
Derived CB2010:	410510011011062
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported

EASTBANK RIVERFRONT PROJECT (Continued) **1006853222**

CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110014153021
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

D12 **DOANE LAKE STUDY AREA** **ECSI** **1006855116**
NNE **1N/1W/S13 & 12** **FINDS** **N/A**
< 1/8 **PORTLAND, OR 97210** **ECHO**
0.095 mi.
499 ft. **Site 2 of 3 in cluster D**

Relative:
Lower

Actual:
115 ft.

ECSI:

State ID Number:	36
Brown ID:	0
Study Area:	True
Region ID:	2
Legislatve ID:	831
Investigation:	Suspect
FACA ID:	39903
Further Action:	0
Lat/Long (dms):	45 34 29.00 / -122 45 3.00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	980664916
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	W
Section Coord:	13
Qtr Section:	Not reported
Tax Lots:	35,42,111,31,43,1,33,44,36
Size:	120 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	06/09/2011
Created Date:	05/03/1988
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Hazardous Release:

Substance ID.:	121664
Haz Release ID:	384724
Qty Released:	unknown
Date Released:	unknown
Update Date:	01/03/1995
Update By:	Not reported
Substance Code:	7440-38-2
Substance Name:	ARSENIC
Substance Abbrev.:	Not reported
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	319286

DOANE LAKE STUDY AREA (Continued) **1006855116**

Sub Alias Name: AS
Comment ID: 303975
Release Code: Data Sources
Release Comments: NL/Gould SSR (ECSI #49)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343255
Feature Id: Not reported
Hazard Release Id: 384724
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 610.00
Sample Comment: 610 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 121639
Haz Release ID: 384725
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 303974
Release Code: Data Sources
Release Comments: NL/Gould SSR (ECSI #49)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343256
Feature Id: Not reported
Hazard Release Id: 384725
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False

DOANE LAKE STUDY AREA (Continued) **1006855116**

Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 290.00
Sample Comment: 290 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 120952
Haz Release ID: 384726
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 120-12-7
Substance Name: ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8473
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8473
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316696
Sub Alias Name: ANTHRACIN
Substance Alias ID: 316697
Sub Alias Name: GREEN OIL
Substance Alias ID: 316698
Sub Alias Name: PARANAPTHALENE
Substance Alias ID: 316699
Sub Alias Name: TETRA OLIVE N2G
Comment ID: 303964
Release Code: Data Sources
Release Comments: GASCO SSR (ECSI #84)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343257
Feature Id: Not reported
Hazard Release Id: 384726
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 330.00
Sample Comment: 330 ppb

DOANE LAKE STUDY AREA (Continued) **1006855116**

Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 121195
Haz Release ID: 384727
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 206-44-0
Substance Name: FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8491
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8491
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317398
Sub Alias Name: BENZACENAPHTHENE,1,2-
Substance Alias ID: 317399
Sub Alias Name: BENZO(jk)FLUORENE
Comment ID: 303968
Release Code: Data Sources
Release Comments: GASCO SSR (ECSI #84)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343258
Feature Id: Not reported
Hazard Release Id: 384727
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 110.00
Sample Comment: 110 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 121679
Haz Release ID: 384728
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 7440-66-6

DOANE LAKE STUDY AREA (Continued) **1006855116**

Substance Name: ZINC
Substance Abbrev.: Not reported
Substance Alias ID: 319302
Sub Alias Name: ZN
Comment ID: 303976
Release Code: Data Sources
Release Comments: NL/Gould SSR (ECSI #49)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343259
Feature Id: Not reported
Hazard Release Id: 384728
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 6900.00
Sample Comment: 6,900 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 121734
Haz Release ID: 384729
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 7664-93-9
Substance Name: SULFURIC ACID
Substance Abbrev.: Not reported
Substance Alias ID: 319457
Sub Alias Name: OIL OF VITRIOL
Substance Alias ID: 319458
Sub Alias Name: SULPHURIC ACID
Comment ID: 303978
Release Code: Data Sources
Release Comments: NL/Gould SSR (ECSI #49)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343260
Feature Id: Not reported
Hazard Release Id: 384729
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported

DOANE LAKE STUDY AREA (Continued) **1006855116**

Max Concentration: Not reported
Sample Comment: pH 5.7
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 121608
Haz Release ID: 384730
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 71-43-2
Substance Name: BENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319178
Sub Alias Name: BENZOL
Substance Alias ID: 319179
Sub Alias Name: COAL NAPTHA
Substance Alias ID: 319180
Sub Alias Name: CYCLOHEXATRIENE
Substance Alias ID: 319181
Sub Alias Name: PHENE
Substance Alias ID: 319182
Sub Alias Name: PYROBENZOL
Comment ID: 303973
Release Code: Data Sources
Release Comments: Wacker Siltronic SSR (ECSI #183)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343261
Feature Id: Not reported
Hazard Release Id: 384730
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 23300.00
Sample Comment: 23,300 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

DOANE LAKE STUDY AREA (Continued) **1006855116**

Substance ID.: 121694
Haz Release ID: 384731
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 75-09-2
Substance Name: METHYLENE CHLORIDE
Substance Abbrev.: Not reported
Substance Category ID: 8518
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8518
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319341
Sub Alias Name: DICHLOROMETHANE
Substance Alias ID: 319342
Sub Alias Name: METHANE DICHLORIDE
Substance Alias ID: 319343
Sub Alias Name: METHYLENE BICHLORIDE
Substance Alias ID: 319344
Sub Alias Name: METHYLENE DICHLORIDE
Comment ID: 303977
Release Code: Data Sources
Release Comments: Rhone-Poulenc SSR (ECSI #155)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343262
Feature Id: Not reported
Hazard Release Id: 384731
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 779.00
Sample Comment: 779 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 121896
Haz Release ID: 384732
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 94-75-7

DOANE LAKE STUDY AREA (Continued) **1006855116**

Substance Name: D,2,4-
Substance Abbrev.: Not reported
Substance Alias ID: 317896
Sub Alias Name: ACETIC ACID,(2,4-DICHLOROPHENOXY)-
Substance Alias ID: 317897
Sub Alias Name: DICHLOROPHENOXYACETIC ACID,2,4-
Substance Alias ID: 317898
Sub Alias Name: HEDONAL
Substance Alias ID: 317899
Sub Alias Name: TRINOXOL
Substance Alias ID: 317900
Sub Alias Name: WEED-B-GONE
Substance Alias ID: 317901
Sub Alias Name: ACID,2,4-D
Substance Alias ID: 317902
Sub Alias Name: SALTS AND ESTERS,2,4-D
Comment ID: 303981
Release Code: Data Sources
Release Comments: Rhone-Poulenc SSR (ECSI #155)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343263
Feature Id: Not reported
Hazard Release Id: 384732
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 364.00
Sample Comment: 364 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 120781
Haz Release ID: 384733
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 100-41-4
Substance Name: ETHYLBENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported

DOANE LAKE STUDY AREA (Continued) **1006855116**

Created Date: 12/17/2002
Substance Alias ID: 316146
Sub Alias Name: ETHYLBENZOL
Substance Alias ID: 316147
Sub Alias Name: PHENYLETHANE
Comment ID: 303962
Release Code: Data Sources
Release Comments: Wacker Siltronic SSR (ECSI #183)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343264
Feature Id: Not reported
Hazard Release Id: 384733
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 4680.00
Sample Comment: 4,680 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 121996
Haz Release ID: 384734
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: ECD228
Substance Name: PETROLEUM HYDROCARBONS
Substance Abbrev.: Not reported
Substance Category ID: 8534
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8534
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 303983
Release Code: Data Sources
Release Comments: Wacker Siltronic SSR (ECSI #183)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343265
Feature Id: Not reported
Hazard Release Id: 384734
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8

DOANE LAKE STUDY AREA (Continued) **1006855116**

Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 89000.00
Sample Comment: 89,000 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 120883
Haz Release ID: 384735
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 108-88-3
Substance Name: TOLUENE
Substance Abbrev.: Not reported
Substance Category ID: 8520
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8520
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316466
Sub Alias Name: BENZENE,METHYL-
Substance Alias ID: 316467
Sub Alias Name: METHACIDE
Substance Alias ID: 316468
Sub Alias Name: METHYLBENZENE
Substance Alias ID: 316469
Sub Alias Name: METHYLBENZOL
Substance Alias ID: 316470
Sub Alias Name: PHENYLMETHANE
Substance Alias ID: 316471
Sub Alias Name: TOLUOL
Comment ID: 303963
Release Code: Data Sources
Release Comments: Wacker Siltronic SSR (ECSI #183)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343266
Feature Id: Not reported
Hazard Release Id: 384735
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True

DOANE LAKE STUDY AREA (Continued) **1006855116**

Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 5960.00
Sample Comment: 5,960 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Substance ID.: 120961
Haz Release ID: 384736
Qty Released: unknown
Date Released: unknown
Update Date: 01/03/1995
Update By: Not reported
Substance Code: 120-83-2
Substance Name: DICHLOROPHENOL,2,4-
Substance Abbrev.: Not reported
Substance Alias ID: 316734
Sub Alias Name: DCP
Substance Alias ID: 316735
Sub Alias Name: DICHLOROPHENOL,4,6-
Substance Alias ID: 316736
Sub Alias Name: HYDROXYBENZENE,1,3-DICHLORO-4-
Substance Alias ID: 316737
Sub Alias Name: PHENOL,2,4-DICHLORO-
Comment ID: 303965
Release Code: Data Sources
Release Comments: Rhone-Poulenc SSR (ECSI #155)
Decode for Relcomcd: Data Sources
Sampling Result ID: 343267
Feature Id: Not reported
Hazard Release Id: 384736
Medium: 698
Substance Abbrev.: Not reported
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 358.00
Sample Comment: 358 ppb
Last Update By: kpd
Update Date: 03/01/1995
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5730380
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 06/27/2003
Decode for NarcdID: Contamination

DOANE LAKE STUDY AREA (Continued) **1006855116**

NARR Comments: (3/1/95 KPD/SRS) Northwest of the railroad line, 30,000 cubic yards of coal tar were laid down from a coal gasification plant. Southeast of the railroad line, a company engaged in battery ***breaking*** and lead smelting buried 80,000 tons of lead-bearing material, and discharged 6.5 million gallons of sulfuric acid into the lake. An adjacent agricultural chemical production facility discharged wastewaters containing chlorinated phenolic and aromatic compounds, as well as herbicides and insecticides. In addition, highly alkaline calcium hydroxide and mildly radioactive zirconium sands have been landfilled in the area. In 1983, NL/Gould (the ***battery breaking*** site) was placed on the National Priorities List (NPL). The RI/FS for NL/Gould was completed in 1988. However, DEQ decided to continue the groundwater investigation for an additional two years, looking into the possibility of an area-wide cleanup. The ***Doane Lake Study*** was completed in 1990.

NARR ID: 5730381
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: 1. ESCO Corp.- Willbridge Landfill files (ECSI #397). 2. Elf Atochem North America files (ECSI #398). 3. GASCO files (ECSI #84)(see VCS Project Manager files). 4. Gould Inc./NL Industries Inc files (ECSI #49)(see SRS Project Manager files). 5. Metro Central Transfer Station files (ECSI #1398). 6. Rhone-Poulenc Inc.- NW St Helens RD files (ECSI #155)(see SRS Project Manager files). 7. Schnitzer Investment - Doane Lake files (ECSI #395). 8. Wacker Siltronic Corporation files (ECSI #183). 9. Doane Lake Study Area files (ECSI #36).

NARR ID: 5730382
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: chlorophenols, coal tar, creosote, PAHs, herbicides, insecticides, radioactive casting sands, lead, calcium hydroxide sludge, volatile organics, sulfuric acid, asbestos

NARR ID: 5730383
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: In NW Portland, on the west bank of the Willamette River at River Mile 7

NARR ID: 5730384
NARR Code: Manner of Release
Created By: Not reported

DOANE LAKE STUDY AREA (Continued) **1006855116**

Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Past operating practices; dumping to lake. Time of releases: early 1900s to 1980s.

NARR ID: 5730385
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: The site is bordered by the Willamette River to the northeast. Forest Park is directly across Highway 30 to the southwest. Oil storage and refining facilities border the site to the southeast (see ECSI #1549). The McCormick & Baxter Superfund site (ECSI #74) is directly across the river from Doane Lake. Public access is restricted to all portions of the Study Area except the Waste Transfer Station.

NARR ID: 5730386
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (3/1/95 KPD/SRS) Upon completion of the Doane Lake Study, DEQ decided it would be more efficient to investigate and clean up the sites in the study area individually, rather than attempt a cleanup of the study area as a whole. An investigation is currently underway at the GASCO site northwest of the railroad line, and remedial activities are underway at the NL/Gould and Rhone-Poulenc (agricultural chemical plant) sites southeast of the line. However, since a cleanup of the area is expected to take years, in the interim, SRS recommends that the study area be placed on the Confirmed Release List (CRL) and the Inventory.

NARR ID: 5730747
NARR Code: Substances of Concern
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Substances of Concern
NARR Comments: PNA, VOCs, metals, pesticides, phenols

NARR ID: 5730839
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Health Threats
NARR Comments: Groundwater contamination, potential releases to the Willamette River. Not reported

DOANE LAKE STUDY AREA (Continued) **1006855116**

NARR ID: 5743705
NARR Code: Site History
Created By: GWISTAR
Created Date: 06/27/2003
Updated By: GWISTAR
Updated Date: 06/27/2003
Decode for NarcdID: Site History
NARR Comments: Doane Lake is a shallow lake and wetland in the floodplain of the Willamette River. Early in this century, the lake was split into three sections by an elevated railroad line. From the 1920s to the 1940s, heavy industries set up along the shores, filling in most of the remnants of Doane Lake.

Administrative Action:
Action ID: 9421
Region: Not reported
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: Site added to CERCLIS
Further Action: Not reported
Comments: Not reported

Action ID: 9514
Region: Not reported
Complete Date: 02/16/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Site Inspection Prioritization
Further Action: Not reported
Comments: Not reported

Action ID: 9426
Region: Headquarters
Complete Date: 02/28/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters

DOANE LAKE STUDY AREA (Continued) **1006855116**

Complete Date: 01/10/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9412
Region: Headquarters
Complete Date: 01/10/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Consent Order
Further Action: Not reported
Comments: Not reported

Action ID: 9444
Region: Not reported
Complete Date: 02/16/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: No Further Remedial Action Planned under Federal program
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 02/28/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported

DOANE LAKE STUDY AREA (Continued) **1006855116**

Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9470
Region: Headquarters
Complete Date: 07/09/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: Not reported
Comments: Area will be addressed on a site-by-site basis instead of as a study area.

Action ID: 9484
Region: Headquarters
Complete Date: 07/08/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: Not reported
Comments: Not reported

Action ID: 9470
Region: Headquarters
Complete Date: 01/10/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: Not reported
Comments: Groundwater Investigation

Action ID: 9457
Region: Not reported
Complete Date: 08/01/1979

DOANE LAKE STUDY AREA (Continued) **1006855116**

Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Basic Preliminary Assessment
Further Action: Not reported
Comments: Not reported

Action ID: 9413
Region: Headquarters
Complete Date: 05/31/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Closeout activities on completed project
Further Action: Not reported
Comments: Not reported

Action ID: 9459
Region: Headquarters
Complete Date: 07/08/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Headquarters
Complete Date: 11/26/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9512
Region: Not reported
Complete Date: 11/06/1979
Rank Value: 0

DOANE LAKE STUDY AREA (Continued) **1006855116**

Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Screening Site Inspection 1
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 07/29/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9431
Region: Headquarters
Complete Date: 05/31/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Place on hold
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 131438
Operation Status: Active
Common Name: Doane Lake Study Area
Yrs of Operation: 1913 to present
Comments: Formerly a wetland and lake; filled in for use by heavy industry.
Updated Date: 08/08/1995
Updated By: kpd
Decode for OpstatID: Active
Operations SIC Id: 198151
SIC Code: 9999
Created By: KDANA
Created Date: 04/08/2003

FINDS:

Registry ID: 110014174366

Environmental Interest/Information System

DOANE LAKE STUDY AREA (Continued) **1006855116**

OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

ECHO:

Envid:	1006855116
Registry ID:	110014174366
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.5747
Longitude:	-122.7508
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-OTHER
Reference Point:	Not reported
Accuracy Meters:	183
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	170900120202
Derived STCT FPS:	41051
Derived Zip:	97210
Derived CD113:	01
Derived CB2010:	410510043001078
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N

DOANE LAKE STUDY AREA (Continued) **1006855116**

GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N

DOANE LAKE STUDY AREA (Continued) **1006855116**

TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110014174366
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

D13 **OAKS BOTTOM LANDFILL** **ECSI** **1006854614**
NNE **1S/1E/S23** **VCP** **N/A**
< 1/8 **PORTLAND, OR 97202** **FINDS**
0.095 mi. **ECHO**
499 ft. **Site 3 of 3 in cluster D**

Relative:
Lower

Actual:
115 ft.

ECSI:

State ID Number:	1006
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	40084
Further Action:	0
Lat/Long (dms):	45 28 14.80 / -122 39 37.00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	S
Range Coord:	1.00
Range Zone:	E
Section Coord:	23
Qtr Section:	Bc
Tax Lots:	SW corner T.L. 100 (1S/1E-23)
Size:	Approx. 9.6 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	09/04/2014
Created Date:	05/13/1988
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: Sellwood Disposal Site
Alias Name: Sellwood Dump
Alias Name: Oaks Bottom Wildlife Refuge, South Meadow

Hazardous Release:
Substance ID.: 121639
Haz Release ID: 387265
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Sampling Result ID: 349493
Feature Id: 0
Hazard Release Id: 387265
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 262.00
Sample Comment: 262 ppm Lead in soils at 5-10 ft bgs in boring OB-GP-1 (1/8/09).78.5 ppm in soils at 0-5 ft bgs in boring OB-GP-3.71.6 ppm in soils at 0.5 ft bgs in boring OB-GP-1.
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil
Sampling Result ID: 349503
Feature Id: 0
Hazard Release Id: 387265
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 112.00
Sample Comment: 112 ppb Lead in Wapato Marsh surface water at main landfill leachate seep (1/26/07).18.9 ppb and 10.8 ppb on 9/23/03.9 ppb Total Lead in surface water at seep (8/22/95).5.62 ppb in surface water at eastern (minor) landfill seep (1/26/07).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121664
Haz Release ID: 387266
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Sampling Result ID: 349491
Feature Id: 0
Hazard Release Id: 387266
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 13.70
Sample Comment: 13.6 ppm Arsenic in soils at 0-5 ft bgs in boring OB-GP-3 (1/8/09).8.27 ppm in soils at 0-5 ft bgs in boring OB-GP-1 (1/8/09).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil

Substance ID.: 121668
Haz Release ID: 387267
Qty Released: Unknown

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7440-43-9
Substance Name: CADMIUM
Substance Abbrev.: Not reported
Substance Category ID: 8460
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8460
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319291
Sub Alias Name: CD
Sampling Result ID: 349492
Feature Id: 0
Hazard Release Id: 387267
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 2.07
Sample Comment: 2.07 ppm Cadmium in soils at 5-10 ft bgs in boring OB-GP-1 (1/8/09).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil

Substance ID.: 121671
Haz Release ID: 387268
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7440-47-3
Substance Name: CHROMIUM
Substance Abbrev.: Not reported
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318145

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Sub Alias Name: CHROMIUM, INORGANIC
Substance Alias ID: 319294
Sub Alias Name: CHROMIUM, TOTAL
Sampling Result ID: 349494
Feature Id: 0
Hazard Release Id: 387268
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 222.00
Sample Comment: 222 ppm Chromium in soils at 0-5 ft bgs in boring OB-GP-3 (1/8/09).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil
Sampling Result ID: 349535
Feature Id: 0
Hazard Release Id: 387268
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 273.00
Sample Comment: 273 ppb Chromium in Wapato Marsh surface water near landfill leachate seep (1/26/07).94.1 ppb in surface water near eastern (minor) landfill seep (1/26/07).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121824
Haz Release ID: 387269
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 85-01-8
Substance Name: PHENANTHRENE
Substance Abbrev.: Not reported
Substance Alias ID: 317648
Sub Alias Name: PHENATHRIN
Sampling Result ID: 349495
Feature Id: 0
Hazard Release Id: 387269
Medium: 703

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .48
Sample Comment: 0.483 ppb Phenanthrene in soils at 5-10 ft bgs in boring OB-GP-1 (1/8/09).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil

Substance ID.: 121614
Haz Release ID: 387270
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 72-54-8
Substance Name: DDD,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319194
Sub Alias Name: DICHLORO-2,2-BIS(p-CHLOROPHENYL)ETHANE,1,1-
Substance Alias ID: 319195
Sub Alias Name: DICHLORODIPHENYLDICHLOROETHANE
Substance Alias ID: 319196
Sub Alias Name: RHOTHANE
Substance Alias ID: 319197
Sub Alias Name: TDE
Substance Alias ID: 319198
Sub Alias Name: TDE,p,p'-
Substance Alias ID: 319199
Sub Alias Name: TETRACHLORODIPHENYLETHANE
Sampling Result ID: 349496
Feature Id: 0
Hazard Release Id: 387270
Medium: 703
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 15-30 ft bgs
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 17.60
Sample Comment: 17.6 ppb p,p'-DDD in soils at 15-30 ft bgs in boring OB-GP-4 (1/8/09).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil
Sampling Result ID: 349518
Feature Id: 0

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Hazard Release Id: 387270
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .01
Sample Comment: 0.0146 ppb p,p'-DDD in Wapato marsh surface water at landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water
Sampling Result ID: 349529
Feature Id: 0
Hazard Release Id: 387270
Medium: 701
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 12.40
Sample Comment: 12.4 ppb p,p'-DDD in Wapato Marsh sediments near landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Sediment

Substance ID.: 121399
Haz Release ID: 387271
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 5103-71-9
Substance Name: CHLORDANE,CIS-
Substance Abbrev.: Not reported
Substance Alias ID: 318634
Sub Alias Name: CHLORDANE,alpha-
Sampling Result ID: 349497
Feature Id: 0
Hazard Release Id: 387271
Medium: 703
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Sample Depth: 15-30 ft bgs
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 31.70
Sample Comment: 31.7 ppb cis-Chlordane in soils at 15-30 ft bgs in boring OB-GP-4 (1/8/09).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil

Substance ID.: 121477
Haz Release ID: 387272
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 57-74-9
Substance Name: CHLORDANE
Substance Abbrev.: Not reported
Substance Alias ID: 318829
Sub Alias Name: CORODANE
Substance Alias ID: 318830
Sub Alias Name: OCTACHLOR
Substance Alias ID: 318831
Sub Alias Name: TOXICHLOR
Substance Alias ID: 318832
Sub Alias Name: VELSICOL 1068
Sampling Result ID: 349498
Feature Id: 0
Hazard Release Id: 387272
Medium: 703
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 15-30 ft bgs
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 286.00
Sample Comment: 286 ppb Total (technical) Chlordane in soils at 15-30 ft bgs in boring OB-GP-4 (1/8/09).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil

Substance ID.: 121400
Haz Release ID: 387273
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 5103-74-2
Substance Name: CHLORDANE,TRANS-
Substance Abbrev.: Not reported

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Substance Alias ID: 318635
Sub Alias Name: CHLORDANE,gamma
Sampling Result ID: 349499
Feature Id: 0
Hazard Release Id: 387273
Medium: 703
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 38.60
Sample Comment: 38.6 ppb trans-Chlordane in soils at 15-30 ft bgs in boring OB-GP-4 (1/8/09).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Soil

Substance ID.: 121634
Haz Release ID: 387274
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7429-90-5
Substance Name: ALUMINUM
Substance Abbrev.: Not reported
Substance Alias ID: 319250
Sub Alias Name: AL
Substance Alias ID: 319251
Sub Alias Name: ALUMINIUM
Sampling Result ID: 349500
Feature Id: 0
Hazard Release Id: 387274
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/22/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1900.00
Sample Comment: 1,900 ppb Total Aluminum in surface water from Wapato Marsh at landfill leachate seep (8/22/95).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121665
Haz Release ID: 387275

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7440-39-3
Substance Name: BARIUM
Substance Abbrev.: Not reported
Substance Category ID: 8458
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8458
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319287
Sub Alias Name: BA
Sampling Result ID: 349501
Feature Id: 0
Hazard Release Id: 387275
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/22/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 400.00
Sample Comment: 400 ppb Total Barium in surface water from Wapato Marsh at landfill leachate seep (8/22/95).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121637
Haz Release ID: 387276
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7439-89-6
Substance Name: IRON
Substance Abbrev.: Not reported
Substance Alias ID: 319254
Sub Alias Name: FE
Sampling Result ID: 349502
Feature Id: 0
Hazard Release Id: 387276
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/22/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 32000.00
Sample Comment: 32,000 ppb Total Iron in surface water from Wapato Marsh at landfill leachate seep (8/22/95).1,300 ppb Dissolved Iron in Wapatp Marsh surface water at landfill seep (11/18/87).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121642
Haz Release ID: 387277
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7439-96-5
Substance Name: MANGANESE
Substance Abbrev.: Not reported
Substance Category ID: 8468
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8468
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319259
Sub Alias Name: MN
Sampling Result ID: 349504
Feature Id: 0
Hazard Release Id: 387277
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/22/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 2400.00
Sample Comment: 2,400 ppb Total Manganese in Wapato Marsh surface water at landfill leachate seep (8/22/95).2,200 ppb Dissolved Manganese in surface water at seep (11/18/87).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121733

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Haz Release ID: 387278
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7664-41-7
Substance Name: AMMONIA
Substance Abbrev.: Not reported
Substance Alias ID: 319456
Sub Alias Name: ANHYDROUS AMMONIA
Sampling Result ID: 349505
Feature Id: 0
Hazard Release Id: 387278
Medium: 704
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/22/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 2.70
Sample Comment: 2.7 ppm Dissolved Ammonia in Wapato marsh surface water at landfill leachate seep (8/22/95).0.12 ppm on 11/18/87.
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 120941
Haz Release ID: 387279
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 117-81-7
Substance Name: BIS(2-ETHYLHEXYL)PHTHALATE
Substance Abbrev.: Not reported
Substance Category ID: 8480
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8480
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316655
Sub Alias Name: BIS(2-ETHYLHEXYL)-1,2-BENZENEDICARBOXYLATE
Substance Alias ID: 316656
Sub Alias Name: BIS(2-ETHYLHEXYL)-o-PHTHALATE
Substance Alias ID: 316657
Sub Alias Name: DI(2-ETHYLHEXYL)ORTHOPHTHALATE
Substance Alias ID: 316658
Sub Alias Name: DI-2-ETHYLHEXYLPHTHALATE

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Substance Alias ID: 316659
Sub Alias Name: DI-sec-OCTYL PHTHALATE
Substance Alias ID: 316660
Sub Alias Name: DIOCTYL PHTHALATE
Substance Alias ID: 316661
Sub Alias Name: PHTHALIC ACID, BIS(2-ETHYLHEXYL) ESTER
Sampling Result ID: 349506
Feature Id: 0
Hazard Release Id: 387279
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/22/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 3.00
Sample Comment: 3.0 ppb bis(2-Ethylhexyl)phthalate in Wapato Marsh surface water at landfill leachate seep (8/22/95).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121815
Haz Release ID: 387280
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 83-32-9
Substance Name: ACENAPHTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8471
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8471
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317621
Sub Alias Name: DIHYDROACENAPHTHYLENE,1,2-
Substance Alias ID: 317622
Sub Alias Name: ETHYLENENAPHTHALENE,1,8-
Substance Alias ID: 317623
Sub Alias Name: PERIETHYLENENAPHTHALENE
Sampling Result ID: 349507
Feature Id: 0
Hazard Release Id: 387280
Medium: 704
Substance Abbrev.: 0
Unit Code: 8

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 5.58
Sample Comment: 5.58 ppb Acenaphthene in Wapato Marsh surface water at landfill leachate seep (1/26/07).5.3 ppb in 2009; 4.69 ppb on 9/23/03; 1.0 ppb on 8/22/95.5.42 ppb in surface water near eastern (minor) seep on 1/26/07.
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water
Sampling Result ID: 349528
Feature Id: 0
Hazard Release Id: 387280
Medium: 701
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 35.80
Sample Comment: 35.8 ppb Acenaphthene in Wapato Marsh sediments near landfill leachate seep (9/23/03).Undetected at 10 ppb in sediments near the center of the marsh (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Sediment

Substance ID.: 121045
Haz Release ID: 387281
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 132-64-9
Substance Name: DIBENZOFURAN
Substance Abbrev.: Not reported
Substance Alias ID: 316997
Sub Alias Name: DIPHENYLENE OXIDE
Sampling Result ID: 349508
Feature Id: 0
Hazard Release Id: 387281
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1.04
Sample Comment: 1.04 ppb Dibenzofuran in Wapato Marsh surface water at landfill leachate seep (9/23/03).1.0 ppb on 8/22/95.
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 120884
Haz Release ID: 387282
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 108-90-7
Substance Name: CHLOROBENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8508
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8508
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316472
Sub Alias Name: BENZENE CHLORIDE
Substance Alias ID: 316473
Sub Alias Name: BENZENE,CHLORO-
Substance Alias ID: 316474
Sub Alias Name: MCB
Substance Alias ID: 316475
Sub Alias Name: MONOCHLOROBENZENE
Substance Alias ID: 316476
Sub Alias Name: PHENYL CHLORIDE
Sampling Result ID: 349509
Feature Id: 0
Hazard Release Id: 387282
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 3.35
Sample Comment: 3.35 ppb Chlorobenzene in Wapato Marsh surface water at landfill leachate seep (9/23/03).3.09 ppb in 2009; 2.18 ppb on 1/26/07; 0.8 ppb on 8/22/95.3.25 ppb in surface water near eastern (minor) seep (1/26/07).

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121673
Haz Release ID: 387283
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7440-50-8
Substance Name: COPPER
Substance Abbrev.: Not reported
Substance Category ID: 8464
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8464
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319296
Sub Alias Name: CU
Sampling Result ID: 349510
Feature Id: 0
Hazard Release Id: 387283
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1100.00
Sample Comment: 1,100 ppb Copper in Wapato Marsh surface water at landfill leachate seep (1/26/07).73.4 ppb is surface water at eastern (minor) seep (1/26/07).18 ppb and 11.3 ppb in surface water at main seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121643
Haz Release ID: 387284
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7439-97-6
Substance Name: MERCURY
Substance Abbrev.: Not reported
Substance Category ID: 8467
Substance Category: Inorganics

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8467
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319260
Sub Alias Name: HG
Substance Alias ID: 319261
Sub Alias Name: HYDRARGYRUM
Substance Alias ID: 319262
Sub Alias Name: LIQUID SILVER
Substance Alias ID: 319263
Sub Alias Name: QUICKSILVER
Sampling Result ID: 349511
Feature Id: 0
Hazard Release Id: 387284
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .05
Sample Comment: 0.053 ppb Mercury in Wapato Marsh surface water at landfill leachate seep (1/26/07).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121646
Haz Release ID: 387285
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7440-02-0
Substance Name: NICKEL
Substance Abbrev.: Not reported
Substance Category ID: 8469
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8469
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319266
Sub Alias Name: NI

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Sampling Result ID: 349512
Feature Id: 0
Hazard Release Id: 387285
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 174.00
Sample Comment: 174 ppb Nickel in Wapato Marsh surface water at landfill leachate seep (1/26/07).157 ppb in surface water near eastern (minor) seep (1/26/07).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121654
Haz Release ID: 387286
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 7440-22-4
Substance Name: SILVER
Substance Abbrev.: Not reported
Substance Category ID: 8470
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8470
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319274
Sub Alias Name: AG
Sampling Result ID: 349513
Feature Id: 0
Hazard Release Id: 387286
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .45
Sample Comment: 0.45 ppb Silver in Wapato Marsh surface water at landfill leachate

OAKS BOTTOM LANDFILL (Continued) **1006854614**

seep (1/26/07).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121059
Haz Release ID: 387287
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 1336-36-3
Substance Name: PCBs
Substance Abbrev.: Not reported
Substance Category ID: 8558
Substance Category: PCB Substances for the OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8558
Substance Category: PCB Substances for the OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317029
Sub Alias Name: BIPHENYL,POLYCHLORO-
Substance Alias ID: 317030
Sub Alias Name: CHLORINATED BIPHENYL
Substance Alias ID: 317031
Sub Alias Name: CHLOROBIPHENYL
Substance Alias ID: 317032
Sub Alias Name: POLYCHLORINATED BIPHENYLs
Substance Alias ID: 317033
Sub Alias Name: POLYCHLOROBIPHENYL
Sampling Result ID: 349514
Feature Id: 0
Hazard Release Id: 387287
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .03
Sample Comment: 0.030 ppb Total PCBs in Wapato Marsh surface water at landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121374
Haz Release ID: 387288
Qty Released: Unknown

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Sampling Result ID: 349515
Feature Id: 0
Hazard Release Id: 387288
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .14
Sample Comment: 0.142 ppb Benzo(a)pyrene in Wapato Marsh surface water at landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121426
Haz Release ID: 387289
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 53469-21-9
Substance Name: PCB 1242
Substance Abbrev.: Not reported
Substance Category ID: 8554
Substance Category: PCB Substances for the OSPIRG Report
Category Level: Not reported
Created By: Not reported

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Created Date: 12/17/2002
Substance Category ID: 8554
Substance Category: PCB Substances for the OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318695
Sub Alias Name: AROCHLOR 1242
Substance Alias ID: 318696
Sub Alias Name: AROCLOR 1242
Sampling Result ID: 349516
Feature Id: 0
Hazard Release Id: 387289
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .03
Sample Comment: 0.030 ppb Aroclor 1242 in Wapato Marsh surface water at landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121373
Haz Release ID: 387291
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 50-29-3
Substance Name: DDT,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 318555
Sub Alias Name: BIS(p-CHLOROPHENYL)-2,2,2-TRICHLOROETHANE,1,1-
Substance Alias ID: 318556
Sub Alias Name: CHLOROPHENOTHANE
Substance Alias ID: 318557
Sub Alias Name: DICHLORODIPHENYLTRICHLOROETHANE
Substance Alias ID: 318558
Sub Alias Name: ETHANE,1,1,1-TRICHLORO-2,2-BIS(p-CHLOROPHENYL)-
Sampling Result ID: 349517
Feature Id: 0
Hazard Release Id: 387291
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .05
Sample Comment: 0.0479 ppb Total p,p'-DDTs in Wapato Marsh surface water at landfill leachate seep (9/23/03).0.0263 ppb Total p,p'-DDTs in Wapato marsh surface water at second sampling point near seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water
Sampling Result ID: 349531
Feature Id: 0
Hazard Release Id: 387291
Medium: 701
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 11.60
Sample Comment: 11.6 ppb 4,4'-DDT in Wapato Marsh sediments near landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Sediment

Substance ID.: 121516
Haz Release ID: 387292
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 60-57-1
Substance Name: DIELDRIN
Substance Abbrev.: Not reported
Substance Alias ID: 318927
Sub Alias Name: HEOD
Substance Alias ID: 318928
Sub Alias Name: OCTALOX
Sampling Result ID: 349519
Feature Id: 0
Hazard Release Id: 387292
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .01

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Sample Comment: 0.0104 ppb Dieldrin in Wapato Marsh surface water near landfill leachate seep (9/23/03).0.00505 ppb in second nearby sample (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121727
Haz Release ID: 387293
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 76-44-8
Substance Name: HEPTACHLOR
Substance Abbrev.: Not reported
Substance Alias ID: 319448
Sub Alias Name: HEPTAMUL
Substance Alias ID: 319449
Sub Alias Name: VELSICOL 104
Sampling Result ID: 349520
Feature Id: 0
Hazard Release Id: 387293
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .01
Sample Comment: 0.0077 ppb Heptachlor in Wapato Marsh surface water near landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 120838
Haz Release ID: 387294
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 106-46-7
Substance Name: DICHLOROBENZENE,1,4-
Substance Abbrev.: Not reported
Substance Alias ID: 316291
Sub Alias Name: BENZENE,1,4-DICHLORO-
Substance Alias ID: 316292
Sub Alias Name: DI-CHLORICIDE
Substance Alias ID: 316293
Sub Alias Name: DICHLOROBENZENE,p-
Substance Alias ID: 316294
Sub Alias Name: PARADICHLOROBENZENE
Substance Alias ID: 316295

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Sub Alias Name: PARAMOTH
Substance Alias ID: 316296
Sub Alias Name: PDB
Sampling Result ID: 349521
Feature Id: 0
Hazard Release Id: 387294
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1.35
Sample Comment: 1.35 ppb p-Dichlorobenzene in Wapato Marsh surface water near landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water
Sampling Result ID: 349532
Feature Id: 0
Hazard Release Id: 387294
Medium: 701
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 3.54
Sample Comment: 3.54 ppb 1,4-Dichlorobenzene in Wapato Marsh sediments near landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Sediment

Substance ID.: 121689
Haz Release ID: 387295
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 75-00-3
Substance Name: CHLOROETHANE
Substance Abbrev.: Not reported
Substance Alias ID: 319316
Sub Alias Name: CHLORETHYL
Substance Alias ID: 319317
Sub Alias Name: CHLORIDUM
Substance Alias ID: 319318
Sub Alias Name: CHLORYL

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Substance Alias ID: 319319
Sub Alias Name: ETHER HYDROCHLORIC
Substance Alias ID: 319320
Sub Alias Name: ETHER MURIATIC
Substance Alias ID: 319321
Sub Alias Name: ETHYL CHLORIDE
Substance Alias ID: 319322
Sub Alias Name: HYDROCHLORIC ETHER
Substance Alias ID: 319323
Sub Alias Name: MONOCHLOROETHANE
Substance Alias ID: 319324
Sub Alias Name: MURIATIC ETHER
Sampling Result ID: 349522
Feature Id: 0
Hazard Release Id: 387295
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .58
Sample Comment: 0.577 ppb Chloroethane in Wapato Marsh surface water near landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121982
Haz Release ID: 387296
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 349523
Feature Id: 0
Hazard Release Id: 387296
Medium: 704
Substance Abbrev.: 0
Unit Code: 8

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/08/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1.53
Sample Comment: 1.53 ppb Diesel Fuel in Wapato Marsh surface water at landfill leachate seep (2009).0.70 ppm on 9/23/03.
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121988
Haz Release ID: 387297
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: ECD198
Substance Name: OIL - LUBRICATING
Substance Abbrev.: Not reported
Substance Category ID: 8531
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8531
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 349525
Feature Id: 0
Hazard Release Id: 387297
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .66
Sample Comment: 0.66 ppb Motor Oil in Wapato Marsh surface water near eastern (minor) landfill leachate seep (1/26/07).0.465 ppb in surface water near main (western) leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121980
Haz Release ID: 387298
Qty Released: Unknown

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: ECD166
Substance Name: FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8528
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8528
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 349524
Feature Id: 0
Hazard Release Id: 387298
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1.96
Sample Comment: 1.96 ppb #6 Fuel Oil in Wapato Marsh surface water at eastern (minor) landfill seep (1/26/07).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121615
Haz Release ID: 387299
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 72-55-9
Substance Name: DDE,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319200
Sub Alias Name: BIS(p-CHLOROPHENYL)-1,1-DICHLOROETHYLENE,2,2-
Substance Alias ID: 319201
Sub Alias Name: DICHLORODIPHENYL DICHLOROETHYLENE,p,p'-
Substance Alias ID: 319202
Sub Alias Name: DICHLOROETHENYLIDENE)BIS(4-CHLOROBENZENE),1,1'-(-
Sampling Result ID: 349530
Feature Id: 0
Hazard Release Id: 387299
Medium: 701
Substance Abbrev.: 0
Unit Code: 8

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 13.40
Sample Comment: 13.4 ppb p,p'-DDE in Wapato Marsh sediments near landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Sediment

Substance ID.: 121827
Haz Release ID: 387300
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/08/2009
Update By: SFORTUN
Substance Code: 86-30-6
Substance Name: N-NITROSODIPHENYLAMINE
Substance Abbrev.: Not reported
Substance Category ID: 8490
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8490
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317654
Sub Alias Name: DIPHENYLNITROSAMINE
Substance Alias ID: 317655
Sub Alias Name: NITROSODIPHENYLAMINE,N-
Substance Alias ID: 317656
Sub Alias Name: N,N-DIPHENYLNITROSAMINE
Substance Alias ID: 317657
Sub Alias Name: NITROSODIPHENYLAMINE
Substance Alias ID: 317658
Sub Alias Name: NITROUS DIPHENYLAMIDE
Sampling Result ID: 349533
Feature Id: 0
Hazard Release Id: 387300
Medium: 701
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/23/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 28.10

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Sample Comment: 28.1 ppb N-Nitrosodiphenylamine in Wapato Marsh sediments near landfill leachate seep (9/23/03).
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Sediment
Sampling Result ID: 349534
Feature Id: 0
Hazard Release Id: 387300
Medium: 704
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/26/2007
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 4.47
Sample Comment: 4.47 ppb N-Nitrosodiphenylamine in Wapato Marsh surface water near eastern (minor) landfill leachate seep (1/26/07).4.2 ppb in surface water near main (western) seep (2009); 3.33 ppb on 9/23/03; 1.26 ppb on 1/26/07.
Last Update By: SFORTUN
Update Date: 06/08/2009
Decode for MediumID: Surface Water

Substance ID.: 121682
Haz Release ID: 387302
Qty Released: Unknown
Date Released: Unknown
Update Date: 06/23/2009
Update By: SFORTUN
Substance Code: 7440-70-2
Substance Name: CALCIUM
Substance Abbrev.: Not reported
Substance Alias ID: 319305
Sub Alias Name: CL
Sampling Result ID: 349536
Feature Id: 0
Hazard Release Id: 387302
Medium: 704
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/22/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 160.00
Sample Comment: 160 ppm Calcium in Wapato Marsh surface water at landfill leachate seep (8/22/95)
Last Update By: SFORTUN
Update Date: 06/23/2009
Decode for MediumID: Surface Water

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Narrative:

NARR ID: 5751397
NARR Code: Site Contacts
Created By: SFORTUN
Created Date: 04/29/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Site Contacts
NARR Comments: Taryn Meyer, City of Portland BES, Coordinated Site Analysis Group, 503-823-8155; 503-823-5861John O'Donovan, City of Portland, BES, 1120 SW 5th Avenue, Room 1000, Portland, OR 97204-1912, 503-823-7881Jan Betz, Deputy City Attorney, City of Portland, 1221 SW 4th Avenue, Suite 430, Portland, OR 97204-1900, 503-823-4047

NARR ID: 5739216
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: GGAMOLO
Updated Date: 09/16/2009
Decode for NarcdID: Contamination
NARR Comments: An unpermitted landfill may have begun operating here in the late 1950s. It closed in December 1970. It is alleged to have accepted only solid waste, demolition, and brush; garbage, car bodies, tires, and animals were said to be excluded. The site lies at the southern end of Oaks Bottom Wildlife Refuge, a city-owned wildlife refuge, and is therefore a concern to the East Multnomah County Soil & Water Conservation District. In 1987, this group requested DEQ sampling to determine the extent of toxic substances or leachate. DEQ's NWR collected a sample in November 1987, and the ensuing lab report cited: ***a moderate increase in organic-based compounds...which commonly occur in wetland environments...inorganic parameters...reflect reasonably good water quality.*** DEQ SAS collected some groundwater from an underwater seep along the southern edge of Oaks Bottom Pond during August 1995. The groundwater is believed to have originated from the former landfill. Analyses detected a number of low-level contaminants, all below concentrations of concern: barium (0.4 mg/l), chromium (0.003 mg/l),lead (0.009 mg/l), iron (32 mg/l), manganese (24 mg/l), chlorobenzene (0.0008 mg/l), acenaphthene (0.001 mg/l), and dibenzofuran (0.001 mg/l).(6/23/09; smf) The concentrations of iron, manganese, and ammonia detected by DEQ in Wapato Marsh surface water near the landfill's major leachate seep during 1987 and 1995 exceeded more-recently-developed Ecological Risk Assessment Screening Values for freshwater aquatic life. Concentrations of aluminum, barium, lead, calcium, and bis-(2-ethylhexyl)phthalate detected in DEQ's 1995 surface water sample also exceeded Ecological Risk Assessment Screening Values.Subsequent analyses of sediment collected near the seep in 2003 by the US Army Corps of Engineers [USACE] detected concentrations of acenaphthene, DDD, DDE, and DDT that exceeded the Ecological Screening Values.Analyses of surface water samples collected near the seep in 2003 by USACE detected concentrations of copper, lead, Total PCBs, benzo(a)pyrene, Total DDT, DDD, DDE, DDT, dieldrin, and heptachlor that could represent a threat to aquatic life in Wapato Marsh.Analyses of surface water samples collected near the seep in 2007 by City of Portland's Bureau of Environmental Services [BES] detected concentrations of chromium, copper, lead,

OAKS BOTTOM LANDFILL (Continued) **1006854614**

mercury, nickel, and silver that could represent a threat to Wapato Marsh aquatic life. Elevated metals concentrations were also detected in surface water near a smaller leachate seep to the east along the landfill toe.Subsurface soils samples collected from the landfill by BES in 2009 contained elevated concentrations of arsenic, cadmium, chromium, lead, phenanthrene, DDD, and chlordane. The detected concentrations of cadmium, chromium, lead, chlordane and DDD could represent an ecological threat to Wapato marsh aquatic life if released to surface water.

NARR ID: 5739217
NARR Code: Disposals
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Disposals
NARR Comments: Site received primarily demolition debris, brush, and soils. Wet garbage, car bodies, and dead animals reportedly were excluded.

NARR ID: 5751258
NARR Code: Data Sources
Created By: SFORTUN
Created Date: 03/10/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Data Sources
NARR Comments: 1) Report of the Solid Waste Subcommittee on Refuse Disposal in the Portland Metropolitan Area, July 17, 1969 (Portland Chamber of Commerce?).2) Solid Waste Field Report, by Columbia Region Association of Governments (sometime shortly before to December 1970).3) Preliminary Draft P-151 Solid Waste Study for H.U.D. Requirements, 70-71 Program, Phase I, Interim Report, by Columbia Region Assoiation of Governments, July 1971 4) (Draft) Our Landfill Legacy, Portland Regional Landfills Closed Since 1960 and their Impact on our Urban and Natural Environment, prepared by Metro, Solid Waste & Recycling, Endineering & Envieronmental Services, April 2003.5) The Landfill Legacy, Portland Metropolitan Area Landfills Closed Since 1960 and their Impact on the Region's Urban and Natural Environment, prepared by Metro, March 2004.6) DEQ surface water test data from Wapato Marsh surface water, November 1987.7) DEQ surface water test data from Wapato Marsh surface water, August 1995.8) USACE surface water and sediment test data from Wapato Marsh, September 2003.9) BES surface water test data from Wapato Marsh, January 2007.10) BES subsurface soil test data from Oaks Bottom Landfill, January 2009.11) Oaks Bottom Wildlife Refuge Restoration Project, Sediment Evaluation Framework, Level-1 Dredge/Sediment Assessment, Township: 1S, Range: 1E Section: 14CD in the Sellwood Neighborhood, Portland, Oregon 97202, BES Project 8576, CSA 737, prepared by City of Portland, Bureau of Environmental Services, Coordinated Site Analysis Program, for City of Portland, Bureau of Environmental Services, Engineering Services, August 31, 2007.

NARR ID: 5751535
NARR Code: General Site Description
Created By: SFORTUN
Created Date: 06/23/2009

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: General Site Description
NARR Comments: (6/23/09; smf) Portland Parks and Recreation Department [PP&R] literature usually refers to the landfill site as the OBWRs South Meadow. The city is actively restoring the South Meadow area as native grassland. The site is relatively flat with slight undulation, and is predominantly vegetated with perennial grasses and a few shrubs and small trees. The site surface in more uneven at its southern apex. Several relatively deep potholes are present at the southern apex. The site generally has a gentle downward slope toward the north and northeast, toward Wapato Marsh. Surface elevations range between about 43 feet above mean sea level [MSL] near the southwest edge of the site, and about 23 feet MSL near the sites northeast corner. The western perimeter of the site slopes upward toward a berm supporting the Oregon Pacific Railroad tracks. A solid waste holding area, operated by PP&R, was located at the southern apex of the site until 2006. The city used the holding area for temporary storage of tree limbs, brush, other cleared vegetation, excess soils, broken paving material, and other relatively inert materials.Gravelled public recreational hiking trails traverse the sites northern and eastern perimeters, and a narrow dirt trail traverses the propertys north/south midline. Several leachate seep can be observed along the landfills northern toe when the surface water elevation in Wapato Marsh is low. The largest seep is located near the midpoint of the sites northern boundary. Several large trees in the general vicinity of the leachate seep are dead. At least three smaller seeps are located along the eastern half of the northern toe. Tire carcasses and small amounts of concrete debris can be found along the landfill toe.

NARR ID: 5739218
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Former demolition debris and brush landfill. No wet garbage.Hazardous substances detected at elevated concentrations in subsurface soils and wastes at the landfill include arsenic, cadmium, chromium, lead, phenanthrene, chlordane, and DDD.Hazardous substances detected at elevated concentrations in Wapato Marsh surface water near the location of a major landfill leachate seep include aluminum, barium, calcium, chromium, copper, iron, lead, manganese, mercury, silver, total PCBs, benzo(a)pyrene, bis-(2-ethylhexyl)phthalate, total DDT, DDD, DDE, DDT, dieldrin, heptachlor, and ammonia.Hazardous substances detected at elevated concentrations in Wapato Marsh sediments near the location of a major landfill leachate seep include acenaphthene, DDD, DDE, and DDT.

NARR ID: 5751537
NARR Code: Project Issues Summary
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Decode for NarcdID: Project Issues Summary
NARR Comments: (6/23/09; smf) DEQ issued the site a No Further Action decision in 1996. Subdequent environmental testing conducted on or near the landfill site, along with recent development of risk-based hazardous substance exposure standards indicate that landfill leachate could be adversely affecting aquatic life within wapato Marsh. The landfill's shallow groundwater has not been analyzed for potential hazardous substances, and it is unclear if shallow groundwater may be used locally as a drinking water supply. It is recommended that the site's 1996 No Further Action decision be rescinded, and that further subsurface investigation of the site's buried wastes and groundwater be conducted.

NARR ID: 5751538
NARR Code: Land Use (Current/Reasonably Likely)
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Land Use (Current/Reasonably Likely)
NARR Comments: Properties atop the escarpment at the eastern edge of the landfill are predominantly residential. The lower lying floodplain is wetlands of the OBWR, with municipal park land, a commercial amusement park, and about 40 houseboats moored along the river. The City of Portland has zoned Oaks Amusement Park and the Oregon Yacht Club properties as residential farming zone.

NARR ID: 5739219
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Site Location
NARR Comments: Take SE 7th heading north from SE Tacoma Blvd to the end of the straight part of the road (it turns right at this point). This is the top of the escarpment that overlooks the landfill. From the grassy area (which has an obvious clay cap - very little vegetation) to the water is the landfill (south of the urban wildlife refuge and just east of the old locomotive).(6/23/09; smf) The former Oaks Bottom Landfill is an approximate 9.6 acre, triangular-shaped tract of land located in southeast Portland, within the southern end of the City of Portlands 168-acre Oaks Bottom Wildlife Refuge [OBWR]. The site is located on the eastern floodplain of the Willamette River, near River Mile 16.1, about 2.5 River Miles upstream from downtown Portland. The site is bordered on the north by Wapato Marsh, a 60-acre, seasonally-inundated wetlands area of the OBWR, and on the west by a right-of-way for East Portland Branch of the Oregon Pacific Railroad Company. Metros Springwater Corridor Recreational Trail parallels the western edge of the railroad right-of-way. Oaks Park, a privately-owned, commercial amusement park, lies farther to the west, just beyond the recreational trail and railroad right-of-way. The Willamette River lies farther to the west, just beyond Oaks Amusement Park. The Oregon Yacht Club and approximately 40 houseboats are located at the downstream end of Oaks Amusement Park. The eastern edge of the landfill lies along the base of a 100-foot high bluff. Sellwood Municipal Park and Portlands Sellwood residential

OAKS BOTTOM LANDFILL (Continued) **1006854614**

neighborhood lie at the top of the bluff. The site lies predominantly within the southern corner of Tax Lot 100 (T1S/R1E-S23), although as much as 1/3 of the site appears to lie within portions of Tax Lot 400 (T1S/R1E-S23), Tax Lot 500 (T1S/R1E-S23), and two abandoned city road bed Right-of-Ways (Deed 1848-316).

NARR ID: 5751539
NARR Code: Manner of Release
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Manner of Release
NARR Comments: (6/23/09; smf) Hazardous substances detected in Wapato Marsh surface water and sediments near the landfill seeps are likely to have originated from wastes buried in the landfill. This is partially supported by elevated concentrations of metals and organochlorine pesticides detected in the landfill subsurface. Although historic waste disposals were reported to generally be limited to construction and demolition debris, as well as brush and stumps, the contaminant detections suggest that other wastes such as industrial wastes may also have been included in the disposals.The landfill's very shallow groundwater table may be mobilizing buried hazardous substances.

NARR ID: 5751540
NARR Code: Media Contamination
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Media Contamination
NARR Comments: (6/23/09; smf) Surface water, surface water sediments, and subsurface soils. It appears likely that very shallow groundwater at the landfill is also contaminated, although no groundwater analyses appear to have been conducted.

NARR ID: 5739220
NARR Code: Site Ownership
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Ownership
NARR Comments: Harold LaVelle was operator of landfill, under contract with City of Portland. (LaVelle Construction). Property owned by Donald M. Drake Company until 1969. City acquired in 1969, and has held since that time. Developed as a wildlife refuge. Currently held by Parks and Recreation Department, with oversight by Portland Audubon Society.

NARR ID: 5751541
NARR Code: Project Activity Status
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Project Activity Status
NARR Comments: (6/23/09; smf) DEQ conducted a federal screening of the site in 1995,

OAKS BOTTOM LANDFILL (Continued) **1006854614**

and based on results of that screening, issued a No Further Action decision for the site in 1996. Results from subsequent environmental testing at the site, and development of new risk-based screening criteria prompted DEQ to re-examine the site in June 2009. DEQ completed a second federal screening, and state preliminary assessment equivalent, of the site in June 2009, determining that DEQ's 1996 No Further Action decision should be rescinded, and that a high priority should be assigned to conducting further subsurface investigation of the landfill.

NARR ID: 5751543
NARR Code: Pathways Other Hazards
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: (6/23/09; smf) Hazardous substance contaminated surface water and sediments in Wapato Marsh represent a potential threat to the marsh's aquatic life, including fish, amphibians, birds, mammals, macroinvertebrates, and plants. Proposed access and habitat improvements to allow salmonids into the lower marsh suggest that marsh contaminants could represent an increased risk to Threatened and Endangered salmonids. Surface water from the marsh drains to a reach of the Willamette River that is known to have sediments that are contaminated with DDT, Dieldrin, and PCBs. Drainage improvements at Wapato Marsh could release increased concentrations of these contaminants to the river.A public recreational hiking trail passes within about 100 feet of the landfill's leachate seeps, so direct human dermal contact with hazardous substances is also possible.The landfill's very shallow groundwater has not been analyzed for hazardous substances. Nearby Oaks Amusement Park has two shallow wells, although there is no indication that the wells are being used to supply drinking water. There is no record of wells at the Oregon Yacht Club or for houseboats that adjoin the northern edge of amusement park. City utility mapping indicates that these properties are not connected to the city's Community Drinking Water Supply, so the sources of drinking water for these properties is unknown. Potentially contaminated shallow groundwater at the landfill could represent a human health threat if local groundwater is used as a drinking water supply.

NARR ID: 5739221
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: JSUTTER
Updated Date: 08/25/2014
Decode for NarcdID: Remedial Action
NARR Comments: (6/18/96 SMF/SAS) Primary concern was potential impact of landfill leachate on wildlife in nearby wildlife sanctuary. However, this impact is deemed insignificant based upon recent data, and no further action is warranted at this site.(6/23/09; smf) Subsequent environmental analyses and development of Risk-Based exposure standards indicate that the landfill leachate contains hazardous substances that may represent a threat to aquatic life within Wapato Marsh. Elevated concentrations of hazardous substances have also been

OAKS BOTTOM LANDFILL (Continued) **1006854614**

detected in the landfill's subsurface soils and buried wastes. It is recommended that DEQ's 1996 No Further Action decision for the site be rescinded, and that further investigation be conducted of the landfills groundwater and buried wastes. (8/25/14; JLS) In early 2010, DEQ reviewed additional investigation documents provided by the City and provided feedback that additional investigation of seeps into the wetland and sediment adjacent to the landfill was warranted. No further communication was provided by the City until spring 2013, when input on the adequacy of the subsequent investigation was requested. DEQ provided a response in January 2014 describing additional sediment and seep sampling required to assess potential impacts of the former landfill on the wetland. The City provided a seep sampling proposal in May 2014. DEQ provided comments. Seep samples were collected in July 2014.

NARR ID: 5739222
NARR Code: Substances of Concern
Created By: Not reported
Created Date: 12/17/2002
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Substances of Concern
NARR Comments: Detected barium, chromium, lead, iron, manganese, chlorobenzene, acenaphthene, and dibenzofuran are all below levels of health or ecological concern.(6/23/09; smf) More-recent data, and recently-developed risk-based exposure standards indicate that the following are potential contaminants of concern that could adversely affect aquatic life within Wapato Marsh: aluminum, arsenic, barium, cadmium, calcium, chromium, copper, iron, lead, manganese, mercury, silver, total PCBs, acenaphthene, benzo(a)pyrene, phenanthrene, bis-(2-ethylhexyl)phthalate, chlordane, total DDT, DDD, DDE, DDT, dieldrin, heptachlor, and ammonia .

NARR ID: 5751546
NARR Code: Health Threats
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Health Threats
NARR Comments: Hazardous substance contamination in Wapato Marsh surface water and sediments near the landfill leachate seeps represents a potential threat to aquatic life within the Oaks Bottom Wildlife Refuge.Since a public recreational trail is located within about 100 feet of the landfill's leachate seeps, direct dermal contact exposures may also be possible for trail users.Landfill groundwater is also likely contaminated, although no testing has been conducted to confirm this. Groundwater is used locally to irrigate municipal and private commercial park lawns, so human dermal and inhalation exposures to contaminated groundwater may be possible.There is no indication of where properties to the west and northwest of the landfill obtain their drinking water. If shallow groundwater at these properties is used as a drinking water supply, and landfill groundwater is contaminated with hazardous substances, hunman exposures through consumption of contaminated drinking water is possible.

NARR ID: 5751545

OAKS BOTTOM LANDFILL (Continued) **1006854614**

NARR Code: Water Use (Current/Reasonably Likely)
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Water Use (Current/Reasonably Likely)
NARR Comments: (6/23/09; smf) Residents in Sellwood have access to the City of Portland's Community Drinking Water Supply. Sellwood Municipal Park, located at the landfill's eastern boundary, atop a 100-foot high bluff, has two deep wells with municipal use Water Rights. The wells are likely used for lawn irrigation. Although static water levels at the top of the bluff are higher than groundwater levels at the landfill, at least one of the city wells is capable of a 225 foot drawdown of the water table during sustained pumping. It is possible that prolonged pumping at these wells could draw contaminated groundwater from the landfill.Oaks Amusement Park, to the west of the landfill, has two shallow wells. One has a Water Right for non-contact use of groundwater for air conditioning. The other well was specified for irrigation use when it was constructed.Oaks Amusement Park is located between the landfill site and the Willamette River. City utility mapping indicates that neither Oaks Amusement Park, the Oregon Yacht Club property on it's northern property line, nor houseboats moored in the river along the Oregon Yacht Club property, have access to the city's drinking water supply. It remains unclear where these three properties obtain their drinking water.

NARR ID: 5751536
NARR Code: Site History
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: SFORTUN
Updated Date: 06/23/2009
Decode for NarcdID: Site History
NARR Comments: (6/23/09; smf) The Oaks Bottom Landfill, originally known as the Sellwood Dump, is believed to have operated from sometime in the late 1950s through the end of December 1970. The landfill very likely has no underliner, and was neither permitted nor inspected by the Oregon Sanitary Authority, ODEQs predecessor agency, while it operated. Wastes are believed to have been disposed directly into the southern end of a pre-existing pond or marshland (Wapato Marsh). From about 1967 to 1969, LaVelle Construction Company managed the fill under contract with the City of Portland. At the time, wastes were comprised primarily of demolition and construction debris, street sweepings, and brush and stumps from throughout Portland Metro area, Lake Oswego, and Beaverton. Garbage, car bodies, tires, and animal carcasses were specifically excluded from the fill. Incoming wastes were reported to have been closely monitored, although waste delivery rates were reported as high as one load per minute. Because of inadequate waste compaction, internal fires were common while the landfill operated. Landfill cover material was both provided by the City of Portland, and purchased from local excavators. The City of Portland acquired the property from the Donald M. Drake Company at the beginning of 1969 to block future industrial development. Rehabilitation of the natural wetland area was begun in the early 1970s, and in 1988, the city designated the site and surrounding area as a wildlife refuge. The City applied several inches of topsoil to

OAKS BOTTOM LANDFILL (Continued) **1006854614**

the site to improve vegetation growth.

NARR ID: 5751544
NARR Code: 1922
Created By: SFORTUN
Created Date: 06/23/2009
Updated By: GWISTAR
Updated Date: 06/30/2009
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [June 2009] DEQ issued a No Further Action decision for the site in 1996, after concluding that potential risks associated with the landfill's leachate seeps were insignificant.However, recent surface water and sediment analyses in Wapato Marsh near the landfill's leachate seeps have shown elevated concentrations of a variety of hazardous substances. New risk-based exposure standards indicate that the contaminated surface water and sediments may represent a threat to aquatic life within the marsh. Buried wastes at the site could be contributing to surface water and sediment contamination in Wapato Marsh.It is recommended that DEQ's 1996 No Further Action decision for the site be rescinded, and that further investigation be conducted of the landfill groundwater and subsurface wastes.

Administrative Action:
Action ID: 9459
Region: Northwestern Region
Complete Date: 06/25/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/23/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: 0
Comments: State PAE

Action ID: 9498
Region: Northwestern Region
Complete Date: 06/25/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/23/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 06/25/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/23/2009
Decode for AgencyID: Department of Environmental Quality

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: 0
Comments: Not reported

Action ID: 9470
Region: Northwestern Region
Complete Date: 06/25/2009
Rank Value: 104
Cleanup Flag: False
Created Date: 06/23/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: High
Comments: Recommend groundwater sampling and further investigation of local groundwater use

Action ID: 9521
Region: Northwestern Region
Complete Date: 06/26/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/26/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: OPTN
Further Action: 0
Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 05/05/2014
Rank Value: 104
Cleanup Flag: False
Created Date: 12/09/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: High
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/25/2014
Decode for AgencyID: Department of Environmental Quality

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 11/03/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Federal Screening

Action ID: 9424
Region: Not reported
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Not reported
Complete Date: 02/12/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132309
Operation Status: Inactive
Common Name: Oaks Bottom Landfill
Yrs of Operation: approx. 1967-70, may have started in late 1950s
Comments: Solid waste landfill that closed in December 1970. Now a city Wildlife Refuge.
Updated Date: 06/23/2009
Updated By: SFORTUN

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Decode for OpstatID: Inactive
Operations SIC Id: 194899
SIC Code: 4953
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 135549
Operation Status: Active
Common Name: Oaks Bottom Wildlife Refuge
Yrs of Operation: 1988 to present
Comments: Site comprises South Meadow of refuge.
Updated Date: 06/23/2009
Updated By: SFORTUN
Decode for OpstatID: Active

VCS:
ECS Site ID: 1006
Facility Size: Approx. 9.6 acres
Action: REMEDIAL INVESTIGATION
Start Date: 05/05/2014
End Date: Not reported
Facility Status: Active
Program: VCP
Latitude: 45.47070
Longitude: -122.6602

FINDS:

Registry ID: 110014168596

Environmental Interest/Information System
OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

ECHO:
Envid: 1006854614
Registry ID: 110014168596
FIPS Code: 41051
EPA Region: 10
Indian Country Flag: N
Federal Flag: Not reported
US Mexico Border Flag: Not reported
Chesapeake Bay Flag: Not reported
NAA Flag: Not reported
Latitude: 45.4707
Longitude: -122.6602
Map Icon: NONE-UNK-MN-N.png
Collection Method: UNKNOWN
Reference Point: Not reported
Accuracy Meters: 17532
Derived Tribes: Not reported

OAKS BOTTOM LANDFILL (Continued) **1006854614**

Derived Huc:	17090012
Derived WBD:	170900120202
Derived STCT FPS:	41051
Derived Zip:	97202
Derived CD113:	03
Derived CB2010:	410510001001005
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported

OAKS BOTTOM LANDFILL (Continued) **1006854614**

CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110014168596
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

14
ESE
< 1/8
0.096 mi.
508 ft.

ITO SHIRO
147 1ST
PORTLAND, OR

EDR Hist Cleaner **1009477193**
N/A

Relative:
Higher

Actual:
126 ft.

EDR Historical Cleaners:

Name:	ITO SHIRO
Year:	1930
Type:	CLEANERS GARMENTS CURTAINS AND DRAPERIES

15
SSW
< 1/8
0.101 mi.
532 ft.

PIHAS GEO
122 3D
PORTLAND, OR

EDR Hist Cleaner **1009476183**
N/A

Relative:
Higher

Actual:
138 ft.

EDR Historical Cleaners:

Name:	PIHAS GEO
Year:	1930
Type:	HAT CLEANERS AND BLOCKERS

16
NE
< 1/8
0.116 mi.
610 ft.

HEATING OIL TANK
20 DEPOT STREET
FAIRVIEW, OR 97024

LUST **S107135205**
OR HAZMAT **N/A**

Relative:
Lower

Actual:
107 ft.

LUST:

Region:	North Western Region
Facility ID:	26-05-0987
Cleanup Received Date:	05/16/2005
Cleanup Start Date:	05/16/2005
Cleanup Complete Date:	**08/30/2005**
Decode for Region:	**North West Region**

HAZMAT:

Responsble Party:	Not reported
RP Company:	Not reported
RP Address:	Not reported
RP City,St,Zip:	Not reported
Facility ID:	211058
OERS Number:	Not reported
Dept Rsp:	Not reported
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	GRESHAM FIRE & EMERG SRVCS
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported

HEATING OIL TANK (Continued) **S107135205**

Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Street address
Incident Aid Given Or Received:	None
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	Not reported
Date Added:	Not reported
Unit:	Not reported
Agency Phone:	Not reported
Osfm Incident Report Number:	211058
Dept. Responding:	Not reported
Person Making Report:	Not reported
Title:	Not reported
Agency:	Not reported
Phone:	Not reported
Date Of Incident:	09/13/2012
Call Time:	13:07
In Route:	Not reported
Arrival:	Not reported
Depart Scene:	Not reported
Back In Quarters:	Not reported
In Service:	Not reported
Dist Of Incident:	Not reported
Were State Resources Used?:	Not reported
Was Oers Notified?:	Not reported
Oers Number:	Not reported
Team Number:	Not reported
Agency Report Number:	Not reported
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Not reported
Area Type:	Not reported
Responsible Party(Ies):	Not reported
Company:	Not reported
Respcontact:	Not reported
Address:	Not reported
Resp City:	Not reported
Resp State:	Not reported
Resp ZipCode:	Not reported
Phone:	Not reported

HEATING OIL TANK (Continued) **S107135205**

Resp Phone2:	Not reported
Weather:	Not reported
Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Were Haz Materials Released?:	Not reported
Operation Performed:	Not reported
Cause:	Not reported
Vehicle And Cargo:	Not reported
Fixed Property:	Not reported
Total Loss:	Not reported
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Gas leak (natural gas or LPG)
Property Use:	Open land or field
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

17
East
1/8-1/4
0.151 mi.
795 ft.

HEATING OIL TANK **LUST** **S104974368**
35 BRIDGE ST **N/A**
FAIRVIEW, OR 97024

Relative:
Lower

Actual:
124 ft.

LUST:

Region:	North Western Region
Facility ID:	26-01-5929
Cleanup Received Date:	05/12/2001
Cleanup Start Date:	05/11/2001
Cleanup Complete Date:	**11/21/2003**
Decode for Region:	**North West Region**

18
SW
1/8-1/4
0.153 mi.
809 ft.

HEATING OIL TANK **LUST** **S105153804**
160 4TH ST **N/A**
FAIRVIEW, OR 97024

Relative:
Higher

Actual:
140 ft.

LUST:

Region:	North Western Region
Facility ID:	26-01-8390
Cleanup Received Date:	11/12/2001
Cleanup Start Date:	11/12/2001
Cleanup Complete Date:	**12/28/2001**
Decode for Region:	**North West Region**

E19
NNE
1/8-1/4
0.195 mi.
1032 ft.

MORROW'S FAIRVIEW SHELL
22231 NE SANDY BLVD
TROUTDALE, OR 97060

Site 1 of 2 in cluster E

UST **U000431064**
N/A

Relative:
Lower

Actual:
77 ft.

UST:

Facility ID:	5661
Facility Telephone:	(503)666-2249
Permittee Name:	MORROW'S FAIRVIEW SHELL
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	5
Number of Tanks:	5

20
South
1/8-1/4
0.196 mi.
1037 ft.

FAIRVIEW CITY OF
300 HARRISON ST
FAIRVIEW, OR 97024

RCRA NonGen / NLR **1004771645**
FINDS **ORQ000011999**
ECHO

Relative:
Higher

Actual:
145 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/16/2001
Facility name:	FAIRVIEW CITY OF
Facility address:	300 HARRISON ST FAIRVIEW, OR 97024
EPA ID:	ORQ000011999
Mailing address:	PO BOX 337 FAIRVIEW, OR 97024
Contact:	BOB COCHRAN
Contact address:	PO BOX 337 FAIRVIEW, OR 97024
Contact country:	US
Contact telephone:	(503) 674-6235
Contact email:	COCHRANB@CI.FAIRVIEW.OR.US
EPA Region:	10
Land type:	Other land type
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	FAIRVIEW, CITY OF
Owner/operator address:	PO BOX 337 FAIRVIEW, OR 97024
Owner/operator country:	US
Owner/operator telephone:	(503) 665-7929
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	01/16/2001
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

FAIRVIEW CITY OF (Continued) **1004771645**

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: 01/19/2000
Site name: FAIRVIEW CITY OF
Classification: Not a generator, verified

Date form received by agency: 05/20/1999
Site name: FAIRVIEW CITY OF
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/30/2002
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004818001

Environmental Interest/Information System

OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

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.

ECHO:
Envid: 1004771645
Registry ID: 110004818001
FIPS Code: 41051
EPA Region: 10
Indian Country Flag: N

FAIRVIEW CITY OF (Continued) **1004771645**

Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.53677
Longitude:	-122.43572
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	Not reported
Derived STCT FPS:	41051
Derived Zip:	97024
Derived CD113:	03
Derived CB2010:	410510101001033
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported

FAIRVIEW CITY OF (Continued) **1004771645**

CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	ORQ000011999
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110004818001
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported

FAIRVIEW CITY OF (Continued) **1004771645**

Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

E21 **COASTAL COATINGS INC** **RCRA NonGen / NLR** **1000644533**
NNE **22222 NE SANDY BLVD** **FINDS** **ORD987193745**
1/8-1/4 **FAIRVIEW, OR 97024** **ECHO**
0.198 mi.
1043 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
78 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/11/1994
Facility name:	COASTAL COATINGS INC
Facility address:	22222 NE SANDY BLVD FAIRVIEW, OR 97024
EPA ID:	ORD987193745
Mailing address:	1520 NE 366TH CORBETT, OR 97019
Contact:	L. ERICKSON
Contact address:	1520 NE 366TH CORBETT, OR 97019
Contact country:	US
Contact telephone:	(503) 695-5670
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:	COASTAL COATINGS INC
Owner/operator address:	1520 NE 366TH CORBETT, OR 97019
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	01/11/1994
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

COASTAL COATINGS INC (Continued) **1000644533**

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: 01/10/1994
Site name: COASTAL COATINGS INC
Classification: Not a generator, verified

Date form received by agency: 04/01/1992
Site name: COASTAL COATINGS INC
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

FINDS:

Registry ID: 110006431245

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.

ECHO:

Envid:	1000644533
Registry ID:	110006431245
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.5422
Longitude:	-122.43445
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	Not reported
Derived STCT FPS:	41051
Derived Zip:	97024
Derived CD113:	03
Derived CB2010:	410510102002008
Percent Minority:	Not reported
Pop Den:	Not reported

COASTAL COATINGS INC (Continued) **1000644533**

Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N

COASTAL COATINGS INC (Continued) **1000644533**

CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	ORD987193745
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110006431245
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

22
SSE
1/8-1/4
0.201 mi.
1062 ft.

HEATING OIL TANK — **LUST** — **S105711204**
1920 FAIRVIEW DR — **N/A**
FAIRVIEW, OR 97024

Relative:
Higher

Actual:
138 ft.

LUST:

Region:	North Western Region
Facility ID:	26-02-1212
Cleanup Received Date:	10/24/2002
Cleanup Start Date:	11/01/2002
Cleanup Complete Date:	**12/23/2002**
Decode for Region:	**North West Region**

23
SSE
1/4-1/2
0.254 mi.
1341 ft.

HEATING OIL TANK — **LUST** — **S106475544**
1802 FAIRVIEW AVE — **N/A**
FAIRVIEW, OR 97204

Relative:
Higher

Actual:
148 ft.

LUST:

Region:	North Western Region
Facility ID:	26-04-0597
Cleanup Received Date:	04/08/2004
Cleanup Start Date:	04/12/2004
Cleanup Complete Date:	**08/09/2004**
Decode for Region:	**North West Region**

24
East
1/4-1/2
0.325 mi.
1718 ft.

HEATING OIL TANK — **LUST** — **S110048147**
225 BRIDGE ST — **N/A**
FAIRVIEW, OR 97024

Relative:
Lower

Actual:
122 ft.

LUST:

Region:	North Western Region
Facility ID:	26-09-0948
Cleanup Received Date:	09/24/2009
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**02/08/2010**
Decode for Region:	**North West Region**

25
East
1/4-1/2
0.332 mi.
1754 ft.

FAIRVIEW DRINKING WATER AQUIFER — **ECSI** — **S110121451**
I-84 AND NE FAIRVIEW AVE. AREA — **N/A**
FAIRVIEW, OR 97024

Relative:
Lower

Actual:
113 ft.

ECSI:

State ID Number:	5279
Brown ID:	0
Study Area:	True
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	113746
Further Action:	256

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Lat/Long (dms):	45 32 26.20 / -122 25 44.80
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	27
Qtr Section:	C
Tax Lots:	undetermined
Size:	undetermined
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	06/09/2011
Created Date:	12/10/2009
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	High
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Hazardous Release:

Substance ID.:	120846
Haz Release ID:	387420
Qty Released:	Unknown
Date Released:	Unknown
Update Date:	12/10/2009
Update By:	SFORTUN
Substance Code:	106-93-4
Substance Name:	ETHYLENE DIBROMIDE
Substance Abbrev.:	Not reported
Substance Alias ID:	316330
Sub Alias Name:	DIBROMOETHANE,1,2-
Substance Alias ID:	316331
Sub Alias Name:	EDB
Substance Alias ID:	316332
Sub Alias Name:	ETHANE,1,2-DIBROMO-
Substance Alias ID:	316333
Sub Alias Name:	GLYCOL DIBROMIDE
Sampling Result ID:	349778
Feature Id:	0
Hazard Release Id:	387420
Medium:	698
Substance Abbrev.:	0
Unit Code:	8
Observation:	True
Owner Operator:	False
Lab Data:	True
Sample Depth:	201-314 ft bgs
Start Date:	12/27/2005
End Date:	Not reported
Min Concentration:	Not reported
Max Concentration:	.08
Sample Comment:	Up to 0.0772 ppb EDB detected in City Well #6 (201-314 ft bgs; 12/27/05).0.060 ppb in Well 6, 11/24/08.Up to 0.0129 ppb detected in City Well #5 (270-360 ft bgs; 11/5/09).0.0103 ppb in Well 5, 12/27/05.

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Last Update By: SFORTUN
Update Date: 02/08/2010
Decode for MediumID: Groundwater

Substance ID.: 121011
Haz Release ID: 387421
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/10/2009
Update By: SFORTUN
Substance Code: 127-18-4
Substance Name: TETRACHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8519
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8551
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8519
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8551
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316912
Sub Alias Name: ETHENE,TETRACHLORO-
Substance Alias ID: 316913
Sub Alias Name: ETHYLENE TETRACHLORIDE
Substance Alias ID: 316914
Sub Alias Name: PERCHLOROETHYLENE
Substance Alias ID: 316915
Sub Alias Name: PERCLENE
Substance Alias ID: 316916
Sub Alias Name: TETRACHLOROETHENE
Substance Alias ID: 316917
Sub Alias Name: TETRACHLOROETHENE,1,1,2,2-
Substance Alias ID: 316918
Sub Alias Name: TETRACHLOROETHYLENE,1,1,2,2-
Sampling Result ID: 349779
Feature Id: 0
Hazard Release Id: 387421
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: 201-314 ft bgs

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Start Date: 02/27/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 13.60
Sample Comment: Up to 13.6 ppb PCE detected in City Well 6 (201-314 ft bgs; 1/22/07).11.7 ppb in Well 6, 2/21/07.8.86 ppb in Well 6, 2/27/09Up to 3.2 ppb detected in City Well 5 (270-360 ft bgs; 12/14/99).2.6 ppb in Well 5, 1/26/00.2.0 ppb in Well 5, 4/14/00.
Last Update By: SFORTUN
Update Date: 02/08/2010
Decode for MediumID: Groundwater

Substance ID.: 121781
Haz Release ID: 387422
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/10/2009
Update By: SFORTUN
Substance Code: 79-01-6
Substance Name: TRICHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317517
Sub Alias Name: ETHINYL TRICHLORIDE
Substance Alias ID: 317518
Sub Alias Name: ETHYLENE TRICHLORIDE
Substance Alias ID: 317519
Sub Alias Name: TCE
Substance Alias ID: 317520
Sub Alias Name: TRI-CLENE
Substance Alias ID: 317521
Sub Alias Name: TRICHLOROETHENE
Sampling Result ID: 349780
Feature Id: 0
Hazard Release Id: 387422
Medium: 698
Substance Abbrev.: 0
Unit Code: 8

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: 201-314 ft bgs
Start Date: 01/16/2009
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .95
Sample Comment: Up to 0.95 ppb TCE detected in City Well 6 (201-314 ft bgs; 1/16/09).0.68 ppb in Well 6, 4/8/09.0.61 ppb in Well 6, 7/21/09.0.6 ppb in Well 6, 11/5/09.
Last Update By: SFORTUN
Update Date: 12/10/2009
Decode for MediumID: Groundwater

Substance ID.: 120883
Haz Release ID: 387423
Qty Released: Unknown
Date Released: Unknow
Update Date: 12/10/2009
Update By: SFORTUN
Substance Code: 108-88-3
Substance Name: TOLUENE
Substance Abbrev.: Not reported
Substance Category ID: 8520
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8520
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316466
Sub Alias Name: BENZENE,METHYL-
Substance Alias ID: 316467
Sub Alias Name: METHACIDE
Substance Alias ID: 316468
Sub Alias Name: METHYLBENZENE
Substance Alias ID: 316469
Sub Alias Name: METHYLBENZOL
Substance Alias ID: 316470
Sub Alias Name: PHENYLMETHANE
Substance Alias ID: 316471
Sub Alias Name: TOLUOL
Sampling Result ID: 349781
Feature Id: 0
Hazard Release Id: 387423
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: 320-1060 ft bgs
Start Date: 02/11/2003

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

End Date: Not reported
Min Concentration: Not reported
Max Concentration: .20
Sample Comment: 0.2 ppb toluene detected in City Well 3 (320-1060 ft bgs; 2/11/03).
Last Update By: SFORTUN
Update Date: 12/10/2009
Decode for MediumID: Groundwater

Substance ID.: 121610
Haz Release ID: 387464
Qty Released: Unknown
Date Released: Unknown
Update Date: 02/08/2010
Update By: SFORTUN
Substance Code: 71-55-6
Substance Name: TRICHLOROETHANE,1,1,1-
Substance Abbrev.: Not reported
Substance Category ID: 8521
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8552
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8521
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8552
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318151
Sub Alias Name: TCA,1,1,1-
Substance Alias ID: 319183
Sub Alias Name: BALTANA
Substance Alias ID: 319184
Sub Alias Name: CHLOROTHENE
Substance Alias ID: 319185
Sub Alias Name: METHYLCHLOROFORM
Sampling Result ID: 349825
Feature Id: 0
Hazard Release Id: 387464
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 04/14/2000
End Date: Not reported

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Min Concentration: Not reported
Max Concentration: 1.90
Sample Comment: 1.9 ppb 1,1,1-TCA in Well 6 (4/14/00).0.4 ppb in Well 5 (4/14/00).
Last Update By: SFORTUN
Update Date: 02/08/2010
Decode for MediumID: Groundwater

Substance ID.: 120781
Haz Release ID: 387465
Qty Released: Unknown
Date Released: Unknown
Update Date: 02/08/2010
Update By: SFORTUN
Substance Code: 100-41-4
Substance Name: ETHYLBENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316146
Sub Alias Name: ETHYLBENZOL
Substance Alias ID: 316147
Sub Alias Name: PHENYLETHANE
Sampling Result ID: 349826
Feature Id: 0
Hazard Release Id: 387465
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/30/2006
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .59
Sample Comment: 0.59 ppb ethylbenzene in distribution system (8/30/06).
Last Update By: SFORTUN
Update Date: 02/08/2010
Decode for MediumID: Groundwater

Substance ID.: 121051
Haz Release ID: 387466
Qty Released: Unknown
Date Released: Unknown
Update Date: 02/08/2010
Update By: SFORTUN
Substance Code: 1330-20-7
Substance Name: XYLENEs

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Substance Abbrev.: Not reported
Substance Category ID: 8526
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8526
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317017
Sub Alias Name: DIMETHYLBENZENEs
Substance Alias ID: 317018
Sub Alias Name: XYLOLs
Sampling Result ID: 349827
Feature Id: 0
Hazard Release Id: 387466
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/30/2006
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 2.67
Sample Comment: 2.67 ppb total xylenes in distribution system (8/30/06).
Last Update By: SFORTUN
Update Date: 02/08/2010
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5751874
NARR Code: Site Contacts
Created By: SFORTUN
Created Date: 12/10/2009
Updated By: SFORTUN
Updated Date: 02/17/2011
Decode for NarcdID: Site Contacts
NARR Comments: City of Fairview:Linda Hulme, Senior Engineering TechnicianCity of Fairview Public Works Department1300 NE Village StreetFairview, OR 97024503-674-6235Alt. Mailing Address:P.O. Box 337Fairview, OR 97024

NARR ID: 5751989
NARR Code: Contamination
Created By: SFORTUN
Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 02/08/2010
Decode for NarcdID: Contamination
NARR Comments: City of Fairview Well #6 has been contaminated with tetrachloroethylene, trichloroethylene, and ethylene dibromide, beginning in December 2005. City Well #5 has been contaminated with tetrachloroethylene and ethylene dibromide, beginning in Devcember 2005. Traces of 1,1,1-trichloroethane were also detected in Wells #6

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

and #5 in April 2000, while a trace of toluene was detected in Well #3 February 2003. Traces of ethylbenzene and total xylenes have been detected in the City of Fairview water distribution system in August 2006. Sources of the groundwater contamination have yet to be identified.

NARR ID: 5751990
NARR Code: Data Sources
Created By: SFORTUN
Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 02/08/2010
Decode for NarcdID: Data Sources
NARR Comments: City of Fairview Community Drinking Water Supply compliance monitoring.

NARR ID: 5751991
NARR Code: General Site Description
Created By: SFORTUN
Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 02/08/2010
Decode for NarcdID: General Site Description
NARR Comments: The City of Fairviews Drinking Water Supply is comprised of five wells that supply potable water to a population of about 9,700. Wells 3, 5, and 8 are pumped continuously, while Wells 6 and 7 are maintained as emergency, or backup, wells to supplement the system during periods of peak demand. The citys five wells (Wells 3, 5, 6, 7, and 8) are distributed within a 185-acre area located at the southeast boundary of Portlands Columbia South Shore Wellfield. Wells 3, 5 and 6 are located near the center of the City of Fairviews wellfield, within about 1,100 feet of each other, but unlike Wells 3 and 5, Well 6 lies east of south-to-north-flowing Fairview Creek.

NARR ID: 5752043
NARR Code: Hazardous Substance/Waste Types
Created By: SFORTUN
Created Date: 03/05/2010
Updated By: SFORTUN
Updated Date: 03/05/2010
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Volatile Halogenated Organic Compounds: Tetrachloroethylene, Trichloroethylene, Ethylene Dibromide.

NARR ID: 5751992
NARR Code: Project Issues Summary
Created By: SFORTUN
Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 02/08/2010
Decode for NarcdID: Project Issues Summary
NARR Comments: Sources for the City of Fairview's groundwater contamination have yet to be defined.

NARR ID: 5751993
NARR Code: Land Use (Current/Reasonably Likely)
Created By: SFORTUN

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 03/05/2010
Decode for NarcdID: Land Use (Current/Reasonably Likely)
NARR Comments: Urban residential, commercial, industrial, and agricultural. The city wells are generally surrounded by residential properties.

NARR ID: 5751994
NARR Code: Site Location
Created By: SFORTUN
Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 02/08/2010
Decode for NarcdID: Site Location
NARR Comments: The City of Fairview's wells are located east and north of the City of Gresham's municipal boundary, and west of the City of Wood Village's municipal boundary, within 2,000 feet east of Blue and Fairview Lakes, to as far as 4,500 feet south and southeast of Fairview Lake.

NARR ID: 5752045
NARR Code: Manner of Release
Created By: SFORTUN
Created Date: 03/05/2010
Updated By: SFORTUN
Updated Date: 03/05/2010
Decode for NarcdID: Manner of Release
NARR Comments: Unknown. Source(s) unknown.

NARR ID: 5752046
NARR Code: Media Contamination
Created By: SFORTUN
Created Date: 03/05/2010
Updated By: SFORTUN
Updated Date: 03/05/2010
Decode for NarcdID: Media Contamination
NARR Comments: Groundwater.

NARR ID: 5752042
NARR Code: Site Ownership
Created By: SFORTUN
Created Date: 03/05/2010
Updated By: SFORTUN
Updated Date: 03/05/2010
Decode for NarcdID: Site Ownership
NARR Comments: City of FairviewPublic Works Department1300 NE Village StreetP.O. Box 337Pairview, OR 97024302-665-7929FAX: 503-666-0888

NARR ID: 5752047
NARR Code: Project Activity Status
Created By: SFORTUN
Created Date: 03/05/2010
Updated By: SFORTUN
Updated Date: 03/15/2010
Decode for NarcdID: Project Activity Status
NARR Comments: DEQ site assessment tentatively identified eight potential sources for the local groundwater contamination, and initiated Preliminary

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Assessments at the first two of the potential sources on March 15, 2010.

NARR ID: 5752048
NARR Code: Pathways Other Hazards
Created By: SFORTUN
Created Date: 03/05/2010
Updated By: SFORTUN
Updated Date: 03/05/2010
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Since the contamination is present in the City of Fairview's drinking water supply, primary contaminant exposure routes of concern are drinking water ingestion, vapor inhalation, and direct contact with drinking water.

NARR ID: 5751997
NARR Code: Remedial Action
Created By: SFORTUN
Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 02/08/2010
Decode for NarcdID: Remedial Action
NARR Comments: DEQ Site Assessment has tentatively identified as many as eight potential sources for the city's groundwater contamination, and will be evaluating each site in more detail.

NARR ID: 5751996
NARR Code: Health Threats
Created By: SFORTUN
Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 02/08/2010
Decode for NarcdID: Health Threats
NARR Comments: Groundwater from the City of Fairview's Well #6 has periodically exceeded the Drinking Water Maximum Contaminant Levels (MCLs) for tetrachloroethylene and ethylene dibromide since June 2004. Well #6 is used as an emergency or supplemental backup water supply, providing drinking water only during times of peak demand. Groundwater from City of Fairview's Well #6 has periodically exceeded the Drinking Water Maximum Contaminant Levels (MCLs) for tetrachloroethylene and ethylene dibromide between June 2004 and April 2009.

NARR ID: 5751995
NARR Code: Water Use (Current/Reasonably Likely)
Created By: SFORTUN
Created Date: 02/08/2010
Updated By: SFORTUN
Updated Date: 02/08/2010
Decode for NarcdID: Water Use (Current/Reasonably Likely)
NARR Comments: Community Drinking Water Supply for the City of Fairview.

NARR ID: 5752044
NARR Code: Site History
Created By: SFORTUN
Created Date: 03/05/2010
Updated By: SFORTUN

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Updated Date: 03/05/2010
Decode for NarcdID: Site History
NARR Comments: City of Fairview has used groundwater as a Community Water Supply since 1935. Tetrachloroethylene contamination was first discovered in the city's drinking water supply in December 1999. Ethylene Dibromide was first discovered in the city's drinking water supply in December 2005. Trichloroethylene was first detected in the ciyt's well water in November 2008. 1,1,1-Trichloroethane was detected in the city's well water in April 2000, but has not been detected since then.

NARR ID: 5752049
NARR Code: 1922
Created By: SFORTUN
Created Date: 03/05/2010
Updated By: GWISTAR
Updated Date: 06/17/2010
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [March 2010] Groundwater from City of Fairview Well #6 contains elevated concentrations of perchloroethylene, trichloroethylene, and ethylene dibromide. Contaminant concentrations have generally been increasing since first discovered in December 1999. Perchloroethylene and ethylene dibromide have also been detected in City of Fairview Well #5, but at lower levels. Contaminant concentrations in Well #5 have either remained more stable than those in Well #6, or declined.Well #6 is an emergency or backup supply well, and is used only to supplement water supply at times of peak demand.Site Assessment has identified several potential sources for the groundwater contamination, and will be examining each in more detail. It appears most likely that there is more than one contamination source.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 12/10/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/10/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9479
Region: Northwestern Region
Complete Date: 03/05/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/05/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Further Investigation of Area Facilities recommended
Further Action: High

FAIRVIEW DRINKING WATER AQUIFER (Continued) **S110121451**

Comments: Examine nearby facilities to determine contamination source.

Action ID: 9449
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/05/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Contamination source has not been defined.

F26 **SMITH, JOHN T./ARSANJANE BP STATION** **LUST** **S100496576**
SSE **1605 NE 223 AVE** **N/A**
1/4-1/2 **TROUTDALE, OR 97060**
0.358 mi.
1889 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
155 ft.

LUST:
Region: North Western Region
Facility ID: 26-92-0257
Cleanup Received Date: 09/10/1992
Cleanup Start Date: 09/09/1992
Cleanup Complete Date: 07/11/1996
Decode for Region: North West Region

F27 **FAIRVIEW CHEVRON** **ECSI** **S104049714**
SSE **1605 NE FAIRVIEW AVE.** **N/A**
1/4-1/2 **FAIRVIEW, OR 97024**
0.358 mi.
1889 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
155 ft.

ECSI:
State ID Number: 5313
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: No Further Action
FACA ID: 106360
Further Action: 0
Lat/Long (dms): 45 32 4.60 / -122 26 2.80
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 27
Qtr Section: CC
Tax Lots: 4100

FAIRVIEW CHEVRON (Continued) **S104049714**

Size: 0.38 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 11/10/2010
Created Date: 03/11/2010
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported
Alias Name: AAA Fairview Shell
Alias Name: Fairview Shell
Alias Name: Fairview BP

Narrative:

NARR ID: 5752076
NARR Code: Site Contacts
Created By: SFORTUN
Created Date: 03/15/2010
Updated By: SFORTUN
Updated Date: 04/13/2010
Decode for NarcdID: Site Contacts
NARR Comments: Site Operator:Bhullar & Bhullar, LLCAttn: Balwant S. Bhullar, Member1605 NE 223rd AvenueFairview, OR 97024503-666-8970also at:21775 NE Palisade PlaceFairview, OR 97024503-492-3006Site Owner:Fairview Gas, Inc.Attn: Nasser A. Arsanjani, President238 Royal Crest CourtEscondido, CA 92025760-480-8334Attorney for site:Brien J. FlanaganSCHWABE, WILLIAMSON & WYATT1211 SW 5th, Ste. 1900 Portland, OR 97204503.796.2915f: 503.796.2900c: 503.860.9297BFlanagan@SCHWABE.com

NARR ID: 5752539
NARR Code: Contamination
Created By: SFORTUN
Created Date: 11/03/2010
Updated By: SFORTUN
Updated Date: 11/03/2010
Decode for NarcdID: Contamination
NARR Comments: There is no indication that the site is a source for halogenated solvent contamination detected in the City of Fairview's Drinking Water Supply wells.A small pocket of petroleum-contaminated soils remains beneath the facility's eastern foundation, although there is no indication that it has contaminated local groundwater. DEQ LUST Program will continue to track the site's residual petroleum contamination.

NARR ID: 5752534
NARR Code: Data Sources
Created By: SFORTUN
Created Date: 11/03/2010
Updated By: SFORTUN
Updated Date: 11/03/2010
Decode for NarcdID: Data Sources
NARR Comments: DEQ UST File, Facility 3739, Fairview Shell.DEQ LUST File #26-92-0257, Smith, John T. / Arsanjane BP Station.Preliminary Site Assessment, Fairview Chevron, DEQ Facility #3739, prepared for Nassar Arsanjani and Bulwant Bhullar, by Robert D. Miller, RG, July 26,

FAIRVIEW CHEVRON (Continued) **S104049714**

2010.Supplement to Preliminary Site Assessment, Fairview Chevron, DEQ Facility #3739, prepared for Nassar Arsanjani and Bulwant Bhullar, by Robert D. Miller, RG, October 2, 2010.

NARR ID: 5752078
NARR Code: General Site Description
Created By: SFORTUN
Created Date: 03/15/2010
Updated By: SFORTUN
Updated Date: 03/15/2010
Decode for NarcdID: General Site Description
NARR Comments: An active gasoline service station at the southwest corner of NE Fairview Avenue (NE 223rd Avenue) and NE Halsey Street, in Fairview.

NARR ID: 5752535
NARR Code: Project Issues Summary
Created By: SFORTUN
Created Date: 11/03/2010
Updated By: SFORTUN
Updated Date: 11/03/2010
Decode for NarcdID: Project Issues Summary
NARR Comments: The site history was reviewed in 2010 as a potential contributor to halogenated solvent contamination discovered in three City of Fairview Community Drinking Water Supply wells. At DEQ's request, the site owners prepared a Preliminary Assessment report, and conducted on-site groundwater and off-site surface water analyses which demonstrated that it is very unlikely the facility contributed to local groundwater contamination.

NARR ID: 5752537
NARR Code: Land Use (Current/Reasonably Likely)
Created By: SFORTUN
Created Date: 11/03/2010
Updated By: SFORTUN
Updated Date: 11/03/2010
Decode for NarcdID: Land Use (Current/Reasonably Likely)
NARR Comments: The site has been the location of a commercial automotive service station since the mid-1950's. gasoline sales and automotive mechancal repair services had been conducted at the site prior to the 1990's, although the facility now primarily provides gasoline and convenience store sales.

NARR ID: 5752536
NARR Code: Site Location
Created By: SFORTUN
Created Date: 11/03/2010
Updated By: SFORTUN
Updated Date: 11/03/2010
Decode for NarcdID: Site Location
NARR Comments: The site is located in the City of Fairview, and occupies a single 0.38-acre tax lot at the southwest corner of NE 223rd Avenue (NE Fairview Avenue) and NE Halsey Street.

NARR ID: 5752077
NARR Code: Site Ownership
Created By: SFORTUN
Created Date: 03/15/2010

FAIRVIEW CHEVRON (Continued) **S104049714**

Updated By: SFORTUN
Updated Date: 03/15/2010
Decode for NarcdID: Site Ownership
NARR Comments: Fairview Gas, Inc.Attn: Nasser A. Arsanjani, President238 Royal Crest CourtEscondido, CA 92025760-480-8334

NARR ID: 5752538
NARR Code: Project Activity Status
Created By: SFORTUN
Created Date: 11/03/2010
Updated By: SFORTUN
Updated Date: 11/03/2010
Decode for NarcdID: Project Activity Status
NARR Comments: A 2010 PA and supplemental groundwater and surface water samplings indicate that the site is very unlikely a source for local groundwater contamination.DEQ Site Assessment no longer considers the site a potential contributor to local groundwater contamination.A small pocket of petroleum-contaminated soil from a prior LUST cleanup (LUST #26-92-0257) remains beneath the facility's eastern foundation. Site LUST cleanup activities concluded in October 1996. DEQ LUST Program will continue to track information about the site's residual petroleum contamination.

NARR ID: 5752540
NARR Code: Remedial Action
Created By: SFORTUN
Created Date: 11/03/2010
Updated By: SFORTUN
Updated Date: 11/03/2010
Decode for NarcdID: Remedial Action
NARR Comments: Site PA completed by Robert D. Miller, RG, on July 26, 2010.Supplemental groundwater and surface water sampling completed by Robert D. Miller, RG, on October 2, 2010.No evidence that the site contributed to halogenated solvent contamination detected in City of Fairview Community Drinking Water Supply wells.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 03/11/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/11/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/15/2010
Decode for AgencyID: Department of Environmental Quality

FAIRVIEW CHEVRON (Continued) **S104049714**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: High
Comments: Not reported

Action ID: 9521
Region: Northwestern Region
Complete Date: 03/24/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/24/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: OPTN
Further Action: 0
Comments: Not reported

Action ID: 9456
Region: Northwestern Region
Complete Date: 07/26/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/03/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: BASIC PRELIMINARY ASSESSEMENT
Further Action: 0
Comments: Site PA by Robert D. Miller, RG, submitted to DEQ on July 26, 2010.

Action ID: 9470
Region: Northwestern Region
Complete Date: 08/02/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/03/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: 0
Comments: Recommend site groundwater sampling and analysis.

Action ID: 9415
Region: Northwestern Region
Complete Date: 10/02/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/03/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region

FAIRVIEW CHEVRON (Continued) **S104049714**

Category: Remedial Action
Action Code Flag: False
Action: CONFIRMATION SAMPLING
Further Action: 0
Comments: Groundwater and surface water sampling and analysis conducted by Robert D. Miller, RG.

Action ID: 9443
Region: Northwestern Region
Complete Date: 11/03/2010
Rank Value: Not reported
Cleanup Flag: True
Created Date: 11/03/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Site is no longer considered a potential source of local halogenated solvent contamination detected in local groundwater. DEQ LUST Program will continue to track small pocket of petroleum-contaminated soil beneath facility's eastern foundation.

Operations:

Operation Id: 135619
Operation Status: Active
Common Name: Fairview Chevron
Yrs of Operation: current
Comments: Not reported
Updated Date: 03/26/2010
Updated By: SFORTUN
Decode for OpstatID: Active

Operation Id: 135620
Operation Status: Inactive
Common Name: Fairview BP
Yrs of Operation: until 1992
Comments: Not reported
Updated Date: 03/26/2010
Updated By: SFORTUN
Decode for OpstatID: Inactive

Operation Id: 135621
Operation Status: Inactive
Common Name: AAA Fairview Shell
Yrs of Operation: Not reported
Comments: Not reported
Updated Date: 03/26/2010
Updated By: SFORTUN
Decode for OpstatID: Inactive

28
SW
1/4-1/2
0.371 mi.
1958 ft.

HEATING OIL TANK
305 7TH
FAIRVIEW, OR 97024

LUST **S102417130**
N/A

Relative:
Higher

Actual:
152 ft.

LUST:

Region:	North Western Region
Facility ID:	26-96-0493
Cleanup Received Date:	08/23/1996
Cleanup Start Date:	08/20/1996
Cleanup Complete Date:	**09/10/1997**
Decode for Region:	**North West Region**

F29
SSE
1/4-1/2
0.371 mi.
1960 ft.

FAIRVIEW VLG SITE
22000 BLK OF NE HALSEY ST
FAIRVIEW, OR 97024
Site 3 of 3 in cluster F

HIST LF **1000913329**
RCRA NonGen / NLR **OR0000643981**
FINDS
ECHO

Relative:
Higher

Actual:
156 ft.

LF HIST:

Permit Number:	69
Section/Town/Range:	S27T27SR12W
SW Type:	General Municipal Waste
SW Closed Date:	1976
Owner:	BLM
Operator:	Coos County

RCRA NonGen / NLR:

Date form received by agency:	10/28/1994
Facility name:	FAIRVIEW VLG SITE
Facility address:	22000 BLK OF NE HALSEY ST FAIRVIEW, OR 97024
EPA ID:	OR0000643981
Mailing address:	434 NW 6TH AVE STE 203 PORTLAND, OR 97209
Contact:	RANDY JONES
Contact address:	1200 NW FRONT AVE STE 620 PORTLAND, OR 97209
Contact country:	US
Contact telephone:	(503) 222-5522
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:	HOLT & HAUGH INC
Owner/operator address:	1200 NW FRONT AVE STE 620 PORTLAND, OR 97209
Owner/operator country:	US
Owner/operator telephone:	(503) 222-5522
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	10/28/1994
Owner/Op end date:	Not reported

Owner/operator name:	HOLT & HAUGH INC
Owner/operator address:	1200 NW FRONT AVE STE 620

FAIRVIEW VLG SITE (Continued) **1000913329**

PORTLAND, OR 97209
Owner/operator country: US
Owner/operator telephone: (503) 222-5522
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 10/28/1994
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: 08/23/1994
Site name: FAIRVIEW VLG SITE
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

FINDS:

Registry ID: 110004774708

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.

ECHO:
Envid: 1000913329
Registry ID: 110004774708
FIPS Code: 41051
EPA Region: 10
Indian Country Flag: N
Federal Flag: Not reported
US Mexico Border Flag: Not reported

FAIRVIEW VLG SITE (Continued) **1000913329**

Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	Not reported
Reference Point:	Not reported
Accuracy Meters:	Not reported
Derived Tribes:	Not reported
Derived Huc:	Not reported
Derived WBD:	Not reported
Derived STCT FPS:	Not reported
Derived Zip:	Not reported
Derived CD113:	Not reported
Derived CB2010:	Not reported
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N

FAIRVIEW VLG SITE (Continued) **1000913329**

CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	OR0000643981
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110004774708
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported

FAIRVIEW VLG SITE (Continued) **1000913329**

Facility Date Last Formal ACT EPA: Not reported
Facility Date Last Formal ACT ST: Not reported
Facility Date Last Inforamal ACT EPA: Not reported
Facility Date Last Informal ACT ST: Not reported
Facility Federal Agency: Not reported
TRI Reporter: Not reported
Facility IMP Water Flag: Not reported

30
ENE
1/4-1/2
0.410 mi.
2164 ft.

HEATING OIL TANK **LUST** **S106777268**
22820 NE SANDY BLVD **N/A**
FAIRVIEW, OR 97024

Relative:
Lower

Actual:
46 ft.

LUST:
Region: North Western Region
Facility ID: 26-04-1833
Cleanup Received Date: 09/13/2004
Cleanup Start Date: 09/14/2004
Cleanup Complete Date: 10/21/2004
Decode for Region: North West Region

31
SE
1/4-1/2
0.450 mi.
2374 ft.

PORTLAND HOSPITAL SERVICE CORP. (FORMER) **ECSI** **S106860739**
22820 NE HALSEY ST. **VCP** **N/A**
FAIRVIEW, OR 97024 **NPDES**
UIC

Relative:
Higher

Actual:
152 ft.

ECSI:
State ID Number: 5314
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: No Further Action
FACA ID: 54705
Further Action: 0
Lat/Long (dms): 45 32 8.16 / -122 25 44.04
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 27
Qtr Section: CD
Tax Lots: 2600
Size: 4.18 acres
NPL: False
Orphan: False
Updated By: SRAPP
Update Date: 03/12/2014
Created Date: 03/11/2010
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported

PORTLAND HOSPITAL SERVICE CORP. (FORMER) (Continued) **S106860739**

Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported
Alias Name: Ukrainian Bible Church

Narrative:
NARR ID: 5752073
NARR Code: Site Contacts
Created By: SFORTUN
Created Date: 03/15/2010
Updated By: SFORTUN
Updated Date: 02/17/2011
Decode for NarcdID: Site Contacts
NARR Comments: Primary Contact for Ukrainian Bible Church: Paul Korchak, Administrator, at 503-962-0404 (cell phone). (fluent in English).Legal Contacts:Ukrainian Bible ChurchAttn: Il'ya Globak, President & Lead PastorP.O. Box 1918Fairview, OR 97024-1805 or22820 NE Halsey StreetFairview, OR 97024503-309-3366503-661-1531Fax: 360-604-2781juliab@lsfloans.comAlso, contact former owner:Portland Hospital Service CorporationAttn: Deborah Lark, Executive Director18440 NE Portal WayPortland, OR 97230-5076503-328-1300Fax: 503-328-1331dlark@phscorp.orgAttorney for PHSC:Michael A. NesteroffLane Powell PC206-223-6242nesteroffm@landpowell.com 1420 5th Avenue #4100Seattle, WA 98101City of Fairview:Linda Hulme, Senior Engineering TechnicianCity of Fairview Public Works Department1300 NE Village StreetFairview, OR 97024503-674-6235Alt. Mailing Address:P.O. Box 337Fairview, OR 97024

NARR ID: 5752138
NARR Code: Site Location
Created By: SFORTUN
Created Date: 04/26/2010
Updated By: SFORTUN
Updated Date: 07/22/2010
Decode for NarcdID: Site Location
NARR Comments: Along the south side of NE Halsey Street, near the eastern edge of the City of Fairview.

NARR ID: 5752075
NARR Code: Site Ownership
Created By: SFORTUN
Created Date: 03/15/2010
Updated By: SFORTUN
Updated Date: 01/26/2011
Decode for NarcdID: Site Ownership
NARR Comments: Ukrainian Bible ChurchAttn: Il'ya Globak, President & Lead PastorP.O. Box 1918Fairview, OR 97024-1805 or22820 NE Halsey StreetFairview, OR 97024503-309-3366503-661-1531Fax: 360-604-2781juliab@lsfloans.comPrevious owner:Portland Hospital Service CorporationAttn: Deborah Lark, Executive Director18440 NE Portal WayPortland, OR 97230-5076503-328-1300Fax: 503-328-1331

NARR ID: 5753784
NARR Code: Remedial Action
Created By: SRAPP
Created Date: 01/11/2012
Updated By: SRAPP
Updated Date: 01/11/2012

PORTLAND HOSPITAL SERVICE CORP. (FORMER) (Continued) **S106860739**

Decode for NarcdID: Remedial Action
NARR Comments: Site was investigated and determined to not be a source of PCE to the City of Fairview Wella #5 and #6

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 03/11/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/11/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Northwestern Region
Complete Date: 03/15/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/15/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: High
Comments: Not reported

Action ID: 9521
Region: Northwestern Region
Complete Date: 03/24/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/24/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: OPTN
Further Action: 0
Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 11/30/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/28/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List

PORTLAND HOSPITAL SERVICE CORP. (FORMER) (Continued) **S106860739**

Further Action: High
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 01/11/2012
Rank Value: Not reported
Cleanup Flag: True
Created Date: 01/11/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: 01/11/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/18/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

VCS:
ECS Site ID: 5314
Facility Size: 4.18 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 01/11/2012
End Date: 01/11/2012
Facility Status: Completed
Program: VCS
Latitude: 45.53560
Longitude: -122.4289

NPDES:
WQ File Nbr: 118608
Legal Name: UKRAINIAN BIBLE CHURCH
Region: Not reported
Pri SIC: 1542
Facility Type: Not reported
Latitude: Not reported
Longitude: Not reported
Category: Not reported
Permit Type: GEN12C
Permit Active: Not reported
Is Active?: FALSE
Permit Description: Not reported
Expiration Date: Not reported

PORTLAND HOSPITAL SERVICE CORP. (FORMER) (Continued) **S106860739**

EPA Number: Not reported
UIC Facility: Not reported
Admin Agent: Not reported
Last Action Date: Not reported
Permit Writer: Not reported
Compliance Inspector: Not reported
DMR Reviewer: Not reported
Application Number: Not reported
Class: Not reported
Start Date: Not reported
Region Decode: Not reported

OR UIC:
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
Status: Not Installed
UIC Number: 12314
Facility Status: Applied for permit
Lat/Long: 45.535099 / -122.4281

UIC Well #: 2
Type: 5D2
Type Description: Storm Water Drainage
Status: Active
UIC Number: 12314
Facility Status: Applied for permit
Lat/Long: 45.535099 / -122.4281

32
SW
1/4-1/2
0.491 mi.
2590 ft.

HEATING OIL TANK **LUST** **S104907983**
21523 NE HALSEY **N/A**
FAIRVIEW, OR 97024

Relative:
Higher

Actual:
193 ft.

LUST:
Region: North Western Region
Facility ID: 26-01-5244
Cleanup Received Date: 02/12/2001
Cleanup Start Date: 02/12/2001
Cleanup Complete Date: 06/13/2001
Decode for Region: North West Region

33
ENE
1/2-1
0.556 mi.
2937 ft.

TOWNSEND - ZAKULA BEAL SPILL **ECSI** **S108010617**
23012 NE SANDY BLVD. **VCP** **N/A**
FAIRVIEW, OR 97024 **NPDES**

Relative:
Lower

Actual:
56 ft.

ECSI:
State ID Number: 4641
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: No Further Action

TOWNSEND - ZAKULA BEAL SPILL (Continued) **S108010617**

FACA ID: 124399
Further Action: 0
Lat/Long (dms): 45 32 32.30 / -122 25 34.00
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 27
Qtr Section: B
Tax Lots: 1100
Size: 6.79 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 07/05/2012
Created Date: 06/12/2006
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported
Alias Name: Bailey Property
Alias Name: LSP Constructors, Inc.
Alias Name: Zakula Beal Auctioneers

Narrative:
NARR ID: 5754072
NARR Code: Data Sources
Created By: KDANA
Created Date: 06/27/2012
Updated By: KDANA
Updated Date: 06/27/2012
Decode for NarcdID: Data Sources
NARR Comments: GeoDesign ***Additional Environmental Services*** (January 5, 2007).UST Facility ID #6531.

NARR ID: 5749495
NARR Code: Manner of Release
Created By: GWISTAR
Created Date: 07/18/2007
Updated By: KDANA
Updated Date: 06/27/2012
Decode for NarcdID: Manner of Release
NARR Comments: A spill of 4.5 gallons of diesel was reported on April 15, 2006. The spill occurred off the SE corner of a former maintenance shop, immediately adjacent to the location of a 4,000-gallon diesel tank that had been removed in 1991.

NARR ID: 5749160
NARR Code: Remedial Action
Created By: CHARMAN
Created Date: 04/06/2007
Updated By: KDANA
Updated Date: 06/27/2012
Decode for NarcdID: Remedial Action

TOWNSEND - ZAKULA BEAL SPILL (Continued) **S108010617**

NARR Comments: A 4,000-gallon diesel UST was decommissioned by removal from the site in April 1991. (UST Facility ID #6531).A spill of 4.5 gallons of diesel was reported on April 15, 2006. A total of 12.16 tons of petroleum-contaminated soil were excavated and removed from the site on April 21, resulting in a pit measuring 10' x 25' x 5'. A confirmation sample from the bottom of the pit originally found 1,600 ppm diesel and 1,800 ppm heavy oil.On November 14, 2006, four test pits were dug at the site (two in the diesel tank area and two in the diesel spill area) to determine the extent of residual soil contamination. A total of six soil samples were collected and analyzed for petroleum hydrocarbons. No contamination was detected. DEQ subsequently determined that no further action was necessary.

Administrative Action:

Action ID: 9425
Region: Northwestern Region
Complete Date: 11/17/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/27/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9449
Region: Northwestern Region
Complete Date: 11/17/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/27/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Northwestern Region
Complete Date: 09/24/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/03/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Signed by Michael E. Townsend, President of Townsend Farms, Inc.

Action ID: 9424
Region: Not reported

TOWNSEND - ZAKULA BEAL SPILL (Continued) **S108010617**

Complete Date: 06/12/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/12/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9505
Region: Northwestern Region
Complete Date: 09/13/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/05/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Confirmatory Sampling recommended
Further Action: Low
Comments: Determine extent of residual soil contamination

Action ID: 9443
Region: Northwestern Region
Complete Date: 11/17/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/02/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135906
Operation Status: Inactive
Common Name: Zakula Beal Auctioneers
Yrs of Operation: 1998-2006
Comments: Automobile auction house
Updated Date: 06/27/2012
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199347
SIC Code: 5012
Created By: KDANA
Created Date: 06/27/2012

Operation Id: 135907
Operation Status: Inactive
Common Name: LSP Constructors, Inc.
Yrs of Operation: 1985-1998

TOWNSEND - ZAKULA BEAL SPILL (Continued) **S108010617**

Comments: Construction company
Updated Date: 06/27/2012
Updated By: KDANA
Decode for OpstatID: Inactive

VCS:
ECS Site ID: 4641
Facility Size: 6.79 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 11/17/2008
End Date: 11/17/2008
Facility Status: Completed
Program: ICP
Latitude: 45.54229
Longitude: -122.4261

NPDES:
WQ File Nbr: 118776
Legal Name: TOWNSEND FARMS, INC.
Region: Not reported
Pri SIC: 1429
Facility Type: Not reported
Latitude: Not reported
Longitude: Not reported
Category: Not reported
Permit Type: GEN12C
Permit Active: Not reported
Is Active?: FALSE
Permit Description: Not reported
Expiration Date: Not reported
EPA Number: Not reported
UIC Facility: Not reported
Admin Agent: Not reported
Last Action Date: Not reported
Permit Writer: Not reported
Compliance Inspector: Not reported
DMR Reviewer: Not reported
Application Number: Not reported
Class: Not reported
Start Date: Not reported
Region Decode: Not reported

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34 **DIRT & AGGREGATE INTERCHANGE INC** **CERCLIS-NFRAP** **1000795573**
WNW **20905 NE SANDY BLVD** **ECSI** **ORD060582236**
1/2-1 **TROUTDALE, OR 97060** **RCRA NonGen / NLR**
0.619 mi. **FINDS**
3268 ft. **ECHO**

Relative: Lower

Actual: 58 ft.

CERCLIS-NFRAP:
Site ID: 1001232
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

Date Started: / /
Date Completed: 05/13/88
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/27/89
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 01/27/89
Date Completed: 01/27/89
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

ECSI:
State ID Number: 874
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: No Further Action
FACA ID: 5496
Further Action: 0
Lat/Long (dms): 45 32 41.30 / -122 26 49.90
County Code: 26.00
Score Value: Not reported
Cerclis ID: 060582236
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 28
Qtr Section: Not reported
Tax Lots: Not reported
Size: 11 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 12/12/2006
Created Date: 05/04/1988
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported

Narrative:
NARR ID: 5728042
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (2/23/94 KPD/SRS) As part of an investigation of area-wide groundwater contamination, EPA inspected the site in 1988. Several 55-gallon drums were present at the site, and areas of dead

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

vegetation and chemical stains were visible along the bank of a small creek that ran through the site. D&A identified four hazardous substances that were used on-site: ***KLAW*** (xylene), Safety Kleen solvent, diesel, and various types of oils (motor oil, hydraulic oil, and waste oil). The solvent and oils were picked up for recycling. D&A claimed that the soil staining was from minor leaks of oil and diesel from trucks and hydraulic hoses. No surface staining or other evidence of releases was noted by DEQ while conducting a federal PA in late 1988.

NARR ID: 5728043
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: solvent, oils, diesel

NARR ID: 5728044
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: I-84 east, exit at 181st, go north on 181st to Sandy Blvd., then go east; facility is on north side of Sandy Blvd.

NARR ID: 5728698
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: The site sits above three aquifers (the Troutdale Gravel Aquifer, the Troutdale Sandstone Aquifer, and the Sandy River Mudstone Aquifer), all of which supply primary or backup water for various municipal water districts. Groundwater flow in all aquifers is generally north to northwest, towards the Columbia River.

NARR ID: 5729149
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (2/23/94 KPD/SRS) The federal PA concluded by recommending a state RCRA inspection to ensure that D&A was handling its hazardous wastes properly. The PA recommended no further action under the federal or state Superfund programs.

Administrative Action:
Action ID: 9421
Region: Not reported
Complete Date: Not reported

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: Site added to CERCLIS
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 01/24/1989
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Headquarters
Complete Date: 01/24/1989
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9456
Region: Headquarters
Complete Date: 05/14/1989
Rank Value: 0

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: No further action recommended Federal.

Action ID: 9444
Region: Not reported
Complete Date: 01/27/1989
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: No Further Remedial Action Planned under Federal program
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 04/09/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 04/09/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 132175
Operation Status: Active
Common Name: Dirt & Aggregate Interchange
Yrs of Operation: 1981-present
Comments: Leasing of heavy construction equipment

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

Updated Date: 03/07/1995
Updated By: jxh
Decode for OpstatID: Active
Operations SIC Id: 195036
SIC Code: 5032
Created By: Not reported
Created Date: 12/17/2002
Operations SIC Id: 195037
SIC Code: 1794
Created By: Not reported
Created Date: 12/17/2002

RCRA NonGen / NLR:
Date form received by agency: 05/22/1998
Facility name: DIRT & AGGREGATE INTERCHANGE INC
Facility address: 20905 NE SANDY BLVD
TROUTDALE, OR 97060
EPA ID: ORD060582236
Mailing address: 20905 NE SANDY BOULEVARD
TROUTDALE, OR 97060
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 10
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DIRT & AGGREGATE INTERCHANGE, INC.
Owner/operator address: 20905 NE SANDY BOULEVARD
TROUTDALE, OR 97060
Owner/operator country: Not reported
Owner/operator telephone: (503) 661-5093
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
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

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

Used oil transfer facility: No
Used oil transporter: No

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - Container Use and Management
Date violation determined: 05/22/1998
Date achieved compliance: 07/30/1998
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 06/12/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 05/22/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - Container Use and Management
Date achieved compliance: 07/30/1998
Evaluation lead agency: State

FINDS:

Registry ID: 110004784706

Environmental Interest/Information System

OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

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.

ECHO:
Envid: 1000795573
Registry ID: 110004784706
FIPS Code: 41051
EPA Region: 10
Indian Country Flag: N
Federal Flag: Not reported
US Mexico Border Flag: Not reported
Chesapeake Bay Flag: Not reported
NAA Flag: Not reported
Latitude: 45.54475

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

Longitude:	-122.44702
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	Not reported
Derived STCT FPS:	41051
Derived Zip:	97024
Derived CD113:	03
Derived CB2010:	410510102001022
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	05/22/1998
Days Last Inspection:	6330
Informal Count:	0
Date Last Informal Action:	06/12/1998
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	ORD060582236
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	6330
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110004784706
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	05/22/1998
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported

DIRT & AGGREGATE INTERCHANGE INC (Continued) **1000795573**

Facility Date Last Informal ACT ST: 06/12/1998
Facility Federal Agency: Not reported
TRI Reporter: Not reported
Facility IMP Water Flag: Not reported

35
ENE
1/2-1
0.675 mi.
3566 ft.

Relative:
Lower

Actual:
67 ft.

TOWNSEND BUSINESS PARK - BIRTCHER
NE TOWNSEND WAY
FAIRVIEW, OR 97024

ECSI **S105527499**
CRL **N/A**
ENG CONTROLS
VCP
BROWNFIELDS
OR HAZMAT
NPDES
UIC

ECSI:
State ID Number: 4230
Brown ID: Brownfield Site - DEQ Tech Assistance
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: Listed on the CRL/Inventory
FACA ID: 59928
Further Action: 0
Lat/Long (dms): 45 32 39.50 / -122 25 27.80
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 27
Qtr Section: B
Tax Lots: SEE SITE LOCATION
Size: 103 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 02/08/2012
Created Date: 10/05/2004
Decode For RegionID: Northwest Region
Decode For BrownID: Brownfield Site - DEQ Technical Assistance
Decode For Furtheract: Not reported
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Not reported
Alias Name: Townsend Farms

Hazardous Release:
Substance ID.: 121614
Haz Release ID: 386777
Qty Released: unknown
Date Released: unknown
Update Date: 02/15/2006
Update By: RWILLIA
Substance Code: 72-54-8
Substance Name: DDD,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319194

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Sub Alias Name: DICHLORO-2,2-BIS(p-CHLOROPHENYL)ETHANE,1,1-
Substance Alias ID: 319195
Sub Alias Name: DICHLORODIPHENYLDICHLOROETHANE
Substance Alias ID: 319196
Sub Alias Name: RHOTHANE
Substance Alias ID: 319197
Sub Alias Name: TDE
Substance Alias ID: 319198
Sub Alias Name: TDE,p,p'-
Substance Alias ID: 319199
Sub Alias Name: TETRACHLORODIPHENYLETHANE
Sampling Result ID: 349028
Feature Id: 0
Hazard Release Id: 386777
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 12/08/2006
End Date: 12/08/2006
Min Concentration: Not reported
Max Concentration: 400.00
Sample Comment: up to 400 ug/kg
Last Update By: KDANA
Update Date: 07/19/2012
Decode for MediumID: Soil

Substance ID.: 121615
Haz Release ID: 386778
Qty Released: unknown
Date Released: unknown
Update Date: 02/15/2006
Update By: RWILLIA
Substance Code: 72-55-9
Substance Name: DDE,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319200
Sub Alias Name: BIS(p-CHLOROPHENYL)-1,1-DICHLOROETHYLENE,2,2-
Substance Alias ID: 319201
Sub Alias Name: DICHLORODIPHENYL DICHLOROETHYLENE,p,p'-
Substance Alias ID: 319202
Sub Alias Name: DICHLOROETHENYLIDENE)BIS(4-CHLOROBENZENE),1,1'-(-
Sampling Result ID: 350471
Feature Id: 0
Hazard Release Id: 386778
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-6 inches bgs
Start Date: 11/02/2007
End Date: 11/02/2007

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Min Concentration: Not reported
Max Concentration: 868.00
Sample Comment: up to 868 ug/kg
Last Update By: KDANA
Update Date: 07/19/2012
Decode for MediumID: Soil

Substance ID.: 121373
Haz Release ID: 386779
Qty Released: unknown
Date Released: unknown
Update Date: 02/15/2006
Update By: RWILLIA
Substance Code: 50-29-3
Substance Name: DDT,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 318555
Sub Alias Name: BIS(p-CHLOROPHENYL)-2,2,2-TRICHLOROETHANE,1,1-
Substance Alias ID: 318556
Sub Alias Name: CHLOROPHENOTHANE
Substance Alias ID: 318557
Sub Alias Name: DICHLORODIPHENYLTRICHLOROETHANE
Substance Alias ID: 318558
Sub Alias Name: ETHANE,1,1,1-TRICHLORO-2,2-BIS(p-CHLOROPHENYL)-
Comment ID: 305451
Release Code: Media Contamination Footnote
Release Comments: Sediment sample from Fairview Creek
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 348934
Feature Id: 0
Hazard Release Id: 386779
Medium: 701
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/06/2006
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 350 ug/kg
Last Update By: RWILLIA
Update Date: 10/04/2006
Decode for MediumID: Sediment
Sampling Result ID: 350472
Feature Id: 0
Hazard Release Id: 386779
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 12-18 inches bgs
Start Date: 07/06/2006

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

End Date: 07/06/2006
Min Concentration: Not reported
Max Concentration: 1350.00
Sample Comment: up to 1,350 ug/kg
Last Update By: KDANA
Update Date: 07/19/2012
Decode for MediumID: Soil
Sampling Result ID: 350473
Feature Id: 0
Hazard Release Id: 386779
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-6 inches bgs
Start Date: 11/02/2007
End Date: 11/02/2007
Min Concentration: Not reported
Max Concentration: 2060.00
Sample Comment: up to 2,060 ug/kg
Last Update By: KDANA
Update Date: 07/19/2012
Decode for MediumID: Soil

Substance ID.: 121516
Haz Release ID: 386780
Qty Released: unknown
Date Released: unknown
Update Date: 02/15/2006
Update By: RWILLIA
Substance Code: 60-57-1
Substance Name: DIELDRIN
Substance Abbrev.: Not reported
Substance Alias ID: 318927
Sub Alias Name: HEOD
Substance Alias ID: 318928
Sub Alias Name: OCTALOX
Sampling Result ID: 348933
Feature Id: 0
Hazard Release Id: 386780
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 12-18 inches bgs
Start Date: 07/06/2006
End Date: 07/06/2006
Min Concentration: Not reported
Max Concentration: 1410.00
Sample Comment: up to 1,410 ug/kg
Last Update By: KDANA
Update Date: 07/19/2012
Decode for MediumID: Soil

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Sampling Result ID: 348935
Feature Id: 0
Hazard Release Id: 386780
Medium: 701
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/06/2006
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 48.1 ug/kg
Last Update By: RWILLIA
Update Date: 10/04/2006
Decode for MediumID: Sediment
Sampling Result ID: 348614
Feature Id: 0
Hazard Release Id: 386780
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-6 inches bgs
Start Date: 10/31/2006
End Date: 10/31/2006
Min Concentration: Not reported
Max Concentration: 970.00
Sample Comment: up to 970 ug/kg
Last Update By: KDANA
Update Date: 07/19/2012
Decode for MediumID: Soil

Substance ID.: 121664
Haz Release ID: 386911
Qty Released: unknown
Date Released: unknown
Update Date: 10/04/2006
Update By: RWILLIA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Sub Alias Name: AS
Sampling Result ID: 348936
Feature Id: 0
Hazard Release Id: 386911
Medium: 703
Substance Abbrev.: 0
Unit Code: 110
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: burn pile
Start Date: 07/07/2006
End Date: 07/07/2006
Min Concentration: Not reported
Max Concentration: 73.80
Sample Comment: up to 73.8 mg/kg
Last Update By: KDANA
Update Date: 07/19/2012
Decode for MediumID: Soil

Narrative:
NARR ID: 5745608
NARR Code: Contamination
Created By: JWAGGY
Created Date: 10/05/2004
Updated By: KDANA
Updated Date: 07/19/2012
Decode for NarcdID: Contamination
NARR Comments: (05/16/2008 PRS/ICP) A Phase 1 Environmental Site Assessment completed in May 2004 identified several recognized environmental conditions including surface diesel spills, a burn pit area, and an irrigation wastewater pond. Sampling in November 2005 and July 2006 identified a variety of organochlorine pesticides in soils and sediments at the site. Chlorinated herbicides were not found at the site. Arsenic was found at up to 10x background. No pesticide contamination was detected in on-site groundwater.A Remedial Investigation included additional soil and sediment sampling in October-November 2007 and February 2008. DDx and dieldrin were found in surface soils across the site, and in the sediments of Fairview Creek and ditches along the edges of the site.Shallow soil samples (less than 2 ft bgs) were collected from eight locations on Lot 14 in October 2007. DDx and dieldrin were detected at concentrations below RBCs but above sediment bioaccumulation SLVs. The following month, three soil samples were collected from the top 6 inches of soil in the ***southwest ditch***, located alongside NE 223rd immediately south of Lot 14, with similar results.

NARR ID: 5745610
NARR Code: Data Sources
Created By: JWAGGY
Created Date: 10/05/2004
Updated By: PSEIDEL
Updated Date: 10/01/2015
Decode for NarcdID: Data Sources
NARR Comments: 1) EMCON ***Phase I Environmental Site Assessment*** (December 4, 1998).2) GeoDesign ***Phase I Environmental Site Assessment*** (May 28, 2004).3) GeoDesign ***Soil Sampling Report*** (January 4, 2006).4) GeoDesign ***Industrial Lands Site Certification Sampling

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Activities*** (August 31, 2006).5) GeoDesign ***Surface Soil Sampling Results***, ***Soil Management Plan***, ***Sampling & Analysis Plan***, ***Cap Management, Inspection & Maintenance Plan*** (February 4, 2008) [Lot 14].6) GeoDesign ***Second Revised Sampling & Analysis Plan*** (April 11, 2008) [Lot 14].7) GeoDesign ***Revised Soil Management Plan*** (May 6, 2009) [Lot 14].8) Maul Foster & Alongi ***Health & Safety Plan*** (June 16, 2009) [Lot 14].9) GeoDesign ***Focused Remedial Investigation, Human Health and Ecological Risk Assessment, Townsend Farms Business Park*** (September, 22, 2009).

NARR ID: 5747447
NARR Code: Hazardous Substance/Waste Types
Created By: RWILLIA
Created Date: 11/10/2005
Updated By: KDANA
Updated Date: 07/26/2012
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Organochlorine pesticides (DDD, DDE, DDT, dieldrin) and agricultural metals including arsenic

NARR ID: 5748957
NARR Code: Site Location
Created By: JWAGGY
Created Date: 01/25/2007
Updated By: KDANA
Updated Date: 07/26/2012
Decode for NarcdID: Site Location
NARR Comments: The site is generally bounded by Union Pacific Railroad tracks to the north, Sandy Blvd. to the south, the Fairview city limits to the east, and NE 223rd Avenue to the west. Located in T1N/R3E/27B, the Tax Lots include: 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 501, 502, 503, 504, 505, 506, 507 and 800.

NARR ID: 5754097
NARR Code: Manner of Release
Created By: KDANA
Created Date: 07/17/2012
Updated By: KDANA
Updated Date: 07/17/2012
Decode for NarcdID: Manner of Release
NARR Comments: Regular application of pesticides and herbicides over nearly a century.

NARR ID: 5748958
NARR Code: Media Contamination
Created By: JWAGGY
Created Date: 01/25/2007
Updated By: JWAGGY
Updated Date: 01/25/2007
Decode for NarcdID: Media Contamination
NARR Comments: Soil and sediment

NARR ID: 5747449
NARR Code: Project Activity Status
Created By: RWILLIA
Created Date: 11/10/2005

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Updated By: PSEIDEL
Updated Date: 10/01/2015
Decode for NarcdID: Project Activity Status
NARR Comments: Site is enrolled in the Independent Cleanup Pathway program of the VCP but the project has been inactive for several years. Several lots on the property have been sold for redevelopment to industrial/commercial use. Prospective purchaser agreement for lot 11 is being considered in 2015, with details for additional work under VCP agreement for remianing work being directed by DEQ.

NARR ID: 5745943
NARR Code: Pathways Other Hazards
Created By: GWISTAR
Created Date: 11/26/2004
Updated By: GWISTAR
Updated Date: 11/26/2004
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Two groundwater supply wells exist on the site.

NARR ID: 5748451
NARR Code: Project Type
Created By: GWISTAR
Created Date: 08/10/2006
Updated By: GWISTAR
Updated Date: 08/10/2006
Decode for NarcdID: Project Type
NARR Comments: OECDD Industrial Lands review.

NARR ID: 5747450
NARR Code: Remedial Action
Created By: RWILLIA
Created Date: 11/10/2005
Updated By: KDANA
Updated Date: 07/26/2012
Decode for NarcdID: Remedial Action
NARR Comments: (05/16/2008 PSR/ICP) Ten composite soil samples representing two depth intervals (0-6*** and 12-18*** bgs) were collected from five lots in November 2005. Most samples contained low concentrations of organochlorine pesticides. Metals concentrations were generally in the range of natural background. Additional soil, sediment, and groundwater samples were collected July 2006. Maximum concentration of dieldrin in soil is 1,410 ug/kg at 12-18 inches bgs. Arsenic at a maximum concentration of 73.8 ug/kg was found in soils at the burn pile, and DDT was found in sediments of Fairview Creek at maximum concentration of 350 ug/kg. A sediment sample upstream of the fields was non-detect. DDT and dieldrin were also found in sediments of the waste water pond, and in the ditch along the railroad tracks where the pond drains.A Remedial Investigation completed in May 2008 proposed silt fencing as an Interim Remedial Action Measure for Fairview Creek and ditches on the edges of the site. Site development will eventually cap the site with buildings, parking lots, etc. that will inhibit further erosion of contaminated surface soils into the ditches and creek.In September 2008, the top one foot of soil (62 tons or 48 cubic yards) was removed from the ***southwest ditch*** and disposed of at the Hillsboro Landfill. In May 2009, the top 6 inches of soil from Lot 14 (est. 2,000 to 3,000 cubic yards) was stripped and hauled to Lot 6, along with an additional 80 cubic yards

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

of soil from the southwest ditch. The soils were mixed with 6% cement prior to reuse as construction backfill. (The southwest ditch was backfilled with crushed rock). A warehouse was subsequently constructed on Lot 14, and DEQ issued a conditional NFA for the lot in February 2010.

NARR ID: 5747448
NARR Code: Health Threats
Created By: RWILLIA
Created Date: 11/10/2005
Updated By: JWAGGY
Updated Date: 01/19/2007
Decode for NarcdID: Health Threats
NARR Comments: Drain tiles have historically been installed in some areas of the property. These would facilitate drainage to nearby surface water in Fairview Creek which drains to Fairview Lake. Drainage from the property may have resulted in movement of pesticide residue into surface water and sediments.(10/06 RKW): Additional sampling (equivalent to an XPA) shows DDT in sediments of Fairview Creek at up to 200 times the risk-based screening level for Ecological receptors. DDT and dieldrin at concentrations greater than screening levels are also found in the sediments of the waste water pond and a drainage ditch along the railroad tracks in the NE corner of the site. Sediment contamination represents a risk to eco-receptors. Dieldrin was found in shallow site soil at concentrations up to 10 times DEQ RBC for direct contact and above the RBC for construction workers.

NARR ID: 5745636
NARR Code: Site History
Created By: RWILLIA
Created Date: 10/21/2004
Updated By: PSEIDEL
Updated Date: 10/01/2015
Decode for NarcdID: Site History
NARR Comments: The Townsend family has owned and farmed the site since the early 1900s. Root vegetables have been the primary crop, transitioning to berries (primarily raspberries) in more recent years. In the early 2000s, the site was divided into 21 lots for redevelopment into a business park (with the processing facility buildings on a 22nd lot). Two new roads, NE 230th Avenue (running north-south) and NE Townsend Way (running east-west) were built across the farms to provide access to the lots. The various lots have been gradually redeveloped since then.Lots 7, 8, 9, 16 & 17 were sold and redeveloped as the Birtcher Center at Townsend Way. See ECSI #5066 for more information.DEQ signed a Prospective Purchaser Agreement with General Pacific, Inc. in July 2008 for the development of Lot 14. A 46,047 sq ft warehouse was completed on the Lot in 2010.

NARR ID: 5750298
NARR Code: 1922
Created By: JWAGGY
Created Date: 04/04/2008
Updated By: PSEIDEL
Updated Date: 07/06/2011
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The agreed upon activities have now been completed for a subset of lots and DEQ has determined that residual concentrations of

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

pesticides in subsurface soil are below levels of concern for direct contact. Based on completion of agreed upon activities and proper documentation of protective residual conditions, DEQ issued a Conditional No Further Action determination on April 3, 2008.

Administrative Action:

Action ID: 9463
Region: Northwestern Region
Complete Date: 03/22/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/24/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: NFA for lots 12 and 13 Tax lot 503 (See also ECSI #4785).

Action ID: 9463
Region: Northwestern Region
Complete Date: 05/05/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/08/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: CNFA issued for Lots 7, 8, 9, 16 & 17. (See ECSI #5066).

Action ID: 9519
Region: Northwestern Region
Complete Date: 03/12/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/07/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Dropped due to lack of activity

Action ID: 9479
Region: Northwestern Region
Complete Date: 03/12/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/12/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Action: Further Investigation of Area Facilities recommended
Further Action: 0
Comments: Complete investigation/remediation of remaining undeveloped lots

Action ID: 9463
Region: Northwestern Region
Complete Date: 02/26/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/12/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: CNFA issued for Lot 14. Conditioned on maintaining cap and following Soil Management Plan.

Action ID: 9484
Region: Northwestern Region
Complete Date: 05/16/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/19/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9451
Region: Northwestern Region
Complete Date: 03/23/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/25/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: 0
Comments: Comments received on behalf of Fairview Development, LLC from Schwabe, Williamson & Wyatt

Action ID: 9464
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/15/2015
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: Lot 11

Action ID: 9424
Region: Not reported
Complete Date: 10/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/05/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 07/07/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/05/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 09/26/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/26/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Not reported

Action ID: 9520
Region: Northwestern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/04/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Action: EXPANDED PRELIMINARY ASSESSMENT
Further Action: 0
Comments: August 31, 2006 Industrial Lands Certificate Sampling Report is equivalent to an XPA

Action ID: 9503
Region: Northwestern Region
Complete Date: 10/04/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/04/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Investigation/Feasibility Study recommended
Further Action: High
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 10/05/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/05/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 01/31/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/31/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 01/31/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/31/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Action: Facility proposed for Inventory
Further Action: 0
Comments: Not reported

Action ID: 9438
Region: Northwestern Region
Complete Date: 05/15/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/15/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9439
Region: Northwestern Region
Complete Date: 05/15/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/15/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: 0
Comments: Not reported

Action ID: 9464
Region: Northwestern Region
Complete Date: 07/10/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/02/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: PPA #08-02: General Pacific Corp. (for Lot 14).

Operations:
Operation Id: 134968
Operation Status: Active
Common Name: Townsend Farms
Yrs of Operation: Early 1900s to early 2000s
Comments: Growing of vegetable root crops and, more recently, berries.
Updated Date: 07/17/2012
Updated By: KDANA
Decode for OpstatID: Active
Operations SIC Id: 199349
SIC Code: 161
Created By: KDANA

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Created Date: 07/12/2012
Operations SIC Id: 199350
SIC Code: 171
Created By: KDANA
Created Date: 07/12/2012

State ID Number: 4785
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: No Further Action
FACA ID: 59928
Further Action: 0
Lat/Long (dms): 45 32 39.50 / -122 25 27.80
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 27
Qtr Section: B
Tax Lots: 503
Size: 10.27 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 07/12/2012
Created Date: 03/29/2007
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported
Alias Name: Fairview Development

Hazardous Release:
Substance ID.: 121615
Haz Release ID: 388008
Qty Released: unknown
Date Released: unknown
Update Date: 07/31/2012
Update By: KDANA
Substance Code: 72-55-9
Substance Name: DDE,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319200
Sub Alias Name: BIS(p-CHLOROPHENYL)-1,1-DICHLOROETHYLENE,2,2-
Substance Alias ID: 319201
Sub Alias Name: DICHLORODIPHENYL DICHLOROETHYLENE,p,p'-
Substance Alias ID: 319202
Sub Alias Name: DICHLOROETHENYLIDENE)BIS(4-CHLOROBENZENE),1,1'-(-
Sampling Result ID: 350482
Feature Id: 0
Hazard Release Id: 388008
Medium: 703

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: composite
Start Date: 11/11/2005
End Date: 11/11/2005
Min Concentration: Not reported
Max Concentration: 140.00
Sample Comment: up to 140 ug/kg
Last Update By: KDANA
Update Date: 07/31/2012
Decode for MediumID: Soil

Substance ID.: 121373
Haz Release ID: 388009
Qty Released: unknown
Date Released: unknown
Update Date: 07/31/2012
Update By: KDANA
Substance Code: 50-29-3
Substance Name: DDT,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 318555
Sub Alias Name: BIS(p-CHLOROPHENYL)-2,2,2-TRICHLOROETHANE,1,1-
Substance Alias ID: 318556
Sub Alias Name: CHLOROPHENOTHANE
Substance Alias ID: 318557
Sub Alias Name: DICHLORODIPHENYLTRICHLOROETHANE
Substance Alias ID: 318558
Sub Alias Name: ETHANE,1,1,1-TRICHLORO-2,2-BIS(p-CHLOROPHENYL)-
Sampling Result ID: 350483
Feature Id: 0
Hazard Release Id: 388009
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: composite
Start Date: 11/11/2005
End Date: 11/11/2005
Min Concentration: Not reported
Max Concentration: 325.00
Sample Comment: up to 325 ug/kg
Last Update By: KDANA
Update Date: 07/31/2012
Decode for MediumID: Soil

Substance ID.: 121516
Haz Release ID: 388010
Qty Released: unknown
Date Released: unknown
Update Date: 07/31/2012
Update By: KDANA

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Substance Code: 60-57-1
Substance Name: DIELDRIN
Substance Abbrev.: Not reported
Substance Alias ID: 318927
Sub Alias Name: HEOD
Substance Alias ID: 318928
Sub Alias Name: OCTALOX
Sampling Result ID: 350484
Feature Id: 0
Hazard Release Id: 388010
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: composite
Start Date: 11/11/2005
End Date: 11/11/2005
Min Concentration: Not reported
Max Concentration: 25.10
Sample Comment: up to 25.1 ug/kg
Last Update By: KDANA
Update Date: 07/31/2012
Decode for MediumID: Soil

Narrative:
NARR ID: 5749132
NARR Code: Contamination
Created By: JWAGGY
Created Date: 03/29/2007
Updated By: JWAGGY
Updated Date: 03/29/2007
Decode for NarcdID: Contamination
NARR Comments: (3/22/07 PS/CU&ER) An environmental investigation was conducted for the subject property by Townsend Farms, Inc. prior to sale and redevelopment of the site by Fairview Development. At lot 13, concentrations of pesticides were generally lower relative to other Townsend Business Park lots and did not exceed applicable occupational risk-based concentrations. Although available data from lot 13 indicates contamination is below human health risk based concentrations, it is assumed some residual pesticides remain in soil that could potentially exceed aquatic ecological critieria.

NARR ID: 5749127
NARR Code: Data Sources
Created By: JWAGGY
Created Date: 03/29/2007
Updated By: KDANA
Updated Date: 07/12/2012
Decode for NarcdID: Data Sources
NARR Comments: 1)Phase 1 Environmental Site Assessment for the 103 Acre Parcel 1N3E Section 27, Fairview, Multnomah County, Oregon 97024, May 28, 2004.

NARR ID: 5754119
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 07/31/2012

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Updated By: KDANA
Updated Date: 07/31/2012
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Organochlorine pesticides, including DDE, DDT and dieldrin

NARR ID: 5754117
NARR Code: Site Location
Created By: KDANA
Created Date: 07/31/2012
Updated By: KDANA
Updated Date: 07/31/2012
Decode for NarcdID: Site Location
NARR Comments: The site covers two lots at the Townsend Business Park. Lots 12 & 13 (now Tax Lot 503) are south of Townsend Way and north of Fairview Creek.

NARR ID: 5754118
NARR Code: Manner of Release
Created By: KDANA
Created Date: 07/31/2012
Updated By: KDANA
Updated Date: 07/31/2012
Decode for NarcdID: Manner of Release
NARR Comments: Regular application of pesticides and herbicides over nearly a century.

NARR ID: 5749133
NARR Code: Remedial Action
Created By: JWAGGY
Created Date: 03/29/2007
Updated By: GWISTAR
Updated Date: 05/03/2007
Decode for NarcdID: Remedial Action
NARR Comments: 3/22/07 PS/CU&ER) DEQ has concluded that there is no potential for current conditions to result in loadings of residual pesticides in soil to Fairview Creek or other surface water features. Pesticide levels in soil do not appear to exceed terrestrial ecological hot spot criteria. The no further action (NFA) is subject to the following conditions:1. Landscaping and parking lots and other features will be maintained such that the site remains in a protective condition, with occasional inspection to ensure no erosion occurs.2. Future subsurface activities involving soil excavation work will be managed in a manner that prevents erosional runoff of soil from the property. In the event of any subsequent redevelopment of the property a soils management plan (SMP) describing how soils excavated as part of any future redevelopment will be characterized and managed should be prepared.3. Land use will remain consistent with current zoning.Lots 12 & 13 require no further action while required conditions are maintained, or unless new or previously undisclosed information becomes available.

NARR ID: 5749128
NARR Code: Site History
Created By: JWAGGY
Created Date: 03/29/2007
Updated By: KDANA
Updated Date: 07/31/2012

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Decode for NarcdID: Site History
NARR Comments: Townsend Farms operated at the site beginning in the early 1900s. Root vegetables were the primary crop, transitioning to berries (primarily raspberries) toward the end of the 20th century. In the early 2000s, the farms were divided into 20+ lots for redevelopment into the Townsend Business Park. Lots 12 & 13 were sold to Fairview Development. See ECSI #4230 for more information on the Townsend Business Park.

Administrative Action:
Action ID: 9459
Region: Northwestern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/31/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: 0
Comments: Industrial Lands Sampling Activities report (for ECSI #4230) is equivalent to an expanded Preliminary Assessment

Action ID: 9424
Region: Not reported
Complete Date: 10/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/29/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 03/22/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/29/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 01/31/2007
Rank Value: Not reported
Cleanup Flag: False

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Created Date: 03/29/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 01/31/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/29/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 09/26/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/29/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Listing proposed for Townsend Business Park (ECSI #4230)

Action ID: 9499
Region: Northwestern Region
Complete Date: 10/05/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/29/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: 0
Comments: Listing proposed for Townsend Business Park (ECSI #4230)

Action ID: 9503
Region: Northwestern Region
Complete Date: 10/04/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/29/2007

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Investigation/Feasibility Study recommended
Further Action: High
Comments: Not reported

Action ID: 9427
Region: Northwestern Region
Complete Date: 03/23/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/29/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Excluded from confirmed release definition
Further Action: 0
Comments: Not reported

Action ID: 9451
Region: Northwestern Region
Complete Date: 03/23/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/29/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: 0
Comments: Comments received on behalf of Fairview Development, LLC from Schwabe, Williamson & Wyatt

Action ID: 9443
Region: Northwestern Region
Complete Date: 03/22/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/03/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

State ID Number: 5066
Brown ID: Brownfield Site - DEQ Tech Assistance
Study Area: False
Region ID: 2
Legislatve ID: 831
Investigation: No Further Action

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

FACA ID: 59928
Further Action: 0
Lat/Long (dms): 45 32 39.50 / -122 25 27.80
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 27
Qtr Section: B
Tax Lots: 107, 506 & 507
Size: 20.45 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 12/31/2014
Created Date: 09/09/2008
Decode For RegionID: Northwest Region
Decode For BrownID: Brownfield Site - DEQ Technical Assistance
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name: Birtcher Center at Townsend Way

Hazardous Release:
Substance ID.: 121614
Haz Release ID: 388003
Qty Released: unknown
Date Released: unknown
Update Date: 07/25/2012
Update By: KDANA
Substance Code: 72-54-8
Substance Name: DDD,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319194
Sub Alias Name: DICHLORO-2,2-BIS(p-CHLOROPHENYL)ETHANE,1,1-
Substance Alias ID: 319195
Sub Alias Name: DICHLORODIPHENYLDICHLOROETHANE
Substance Alias ID: 319196
Sub Alias Name: RHOTHANE
Substance Alias ID: 319197
Sub Alias Name: TDE
Substance Alias ID: 319198
Sub Alias Name: TDE,p,p'-
Substance Alias ID: 319199
Sub Alias Name: TETRACHLORODIPHENYLETHANE
Sampling Result ID: 350477
Feature Id: 0
Hazard Release Id: 388003
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Sample Depth: composite
Start Date: 11/01/2006
End Date: 11/01/2006
Min Concentration: Not reported
Max Concentration: 400.00
Sample Comment: up to 400 ug/kg
Last Update By: KDANA
Update Date: 07/25/2012
Decode for MediumID: Soil

Substance ID.: 121615
Haz Release ID: 388004
Qty Released: unknown
Date Released: unknown
Update Date: 07/25/2012
Update By: KDANA
Substance Code: 72-55-9
Substance Name: DDE,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319200
Sub Alias Name: BIS(p-CHLOROPHENYL)-1,1-DICHLOROETHYLENE,2,2-
Substance Alias ID: 319201
Sub Alias Name: DICHLORODIPHENYL DICHLOROETHYLENE,p,p'-
Substance Alias ID: 319202
Sub Alias Name: DICHLOROETHENYLIDENE)BIS(4-CHLOROBENZENE),1,1'-(-
Sampling Result ID: 350478
Feature Id: 0
Hazard Release Id: 388004
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6 inches bgs
Start Date: 10/31/2006
End Date: 10/31/2006
Min Concentration: Not reported
Max Concentration: 290.00
Sample Comment: up to 290 ug/kg
Last Update By: KDANA
Update Date: 07/25/2012
Decode for MediumID: Soil

Substance ID.: 121373
Haz Release ID: 388005
Qty Released: unknown
Date Released: unknown
Update Date: 07/25/2012
Update By: KDANA
Substance Code: 50-29-3
Substance Name: DDT,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 318555
Sub Alias Name: BIS(p-CHLOROPHENYL)-2,2,2-TRICHLOROETHANE,1,1-
Substance Alias ID: 318556
Sub Alias Name: CHLOROPHENOTHANE

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Substance Alias ID: 318557
Sub Alias Name: DICHLORODIPHENYLTRICHLOROETHANE
Substance Alias ID: 318558
Sub Alias Name: ETHANE,1,1,1-TRICHLORO-2,2-BIS(p-CHLOROPHENYL)-
Sampling Result ID: 350479
Feature Id: 0
Hazard Release Id: 388005
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6 inches bgs
Start Date: 10/31/2006
End Date: 10/31/2006
Min Concentration: Not reported
Max Concentration: 490.00
Sample Comment: up to 490 ug/kg
Last Update By: KDANA
Update Date: 07/25/2012
Decode for MediumID: Soil

Substance ID.: 121516
Haz Release ID: 388006
Qty Released: unknown
Date Released: unknown
Update Date: 07/25/2012
Update By: KDANA
Substance Code: 60-57-1
Substance Name: DIELDRIN
Substance Abbrev.: Not reported
Substance Alias ID: 318927
Sub Alias Name: HEOD
Substance Alias ID: 318928
Sub Alias Name: OCTALOX
Sampling Result ID: 350480
Feature Id: 0
Hazard Release Id: 388006
Medium: 703
Substance Abbrev.: 0
Unit Code: 73
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6 inches bgs
Start Date: 10/31/2006
End Date: 10/31/2006
Min Concentration: Not reported
Max Concentration: 970.00
Sample Comment: up to 970 ug/kg
Last Update By: KDANA
Update Date: 07/25/2012
Decode for MediumID: Soil

Substance ID.: 121664
Haz Release ID: 388007

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Qty Released: unknown
Date Released: unknown
Update Date: 07/25/2012
Update By: KDANA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Sampling Result ID: 350481
Feature Id: 0
Hazard Release Id: 388007
Medium: 703
Substance Abbrev.: 0
Unit Code: 110
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: composite
Start Date: 11/01/2006
End Date: 11/01/2006
Min Concentration: Not reported
Max Concentration: 55.80
Sample Comment: up to 55.8 mg/kg
Last Update By: KDANA
Update Date: 07/25/2012
Decode for MediumID: Soil

Narrative:
NARR ID: 5750854
NARR Code: Contamination
Created By: JWAGGY
Created Date: 09/18/2008
Updated By: KDANA
Updated Date: 07/26/2012
Decode for NarcdID: Contamination
NARR Comments: (05/05/2008 PRS/ICP) A Phase I Environmental Site Assessment completed in May 2004 for the proposed Townsend Business Park (ECSI #4230) identified a number of environmental concerns, and the project entered into DEQ's Voluntary Cleanup program. Surface soil sampling in late-October / early-November 2006 identified organochlorine pesticides (DDx and dieldrin) in surface soils across the farms, along with agricultural metals such as arsenic.

NARR ID: 5750855
NARR Code: Data Sources
Created By: JWAGGY
Created Date: 09/18/2008

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Updated By: KDANA
Updated Date: 07/24/2012
Decode for NarcdID: Data Sources
NARR Comments: 1) GeoDesign ***Limited Residual Pesticide Sampling Activities: Lots 7, 8, 9, 16 & 17*** (December 8, 2006).2) GeoDesign ***Limited Residual Pesticide Sampling: Lot 7 Fill Material*** (January 24, 2007).3) GeoDesign ***Revised Soil Stripping Work Plan*** (March 30, 2007).4) Maul Foster & Alongi ***Soil Sampling and Analysis Plan*** (April 3, 2007).5) Maul Foster & Alongi ***Soil Management Plan*** (April 3, 2007).6) Maul Foster & Alongi ***Cap Management, Inspection, and Maintenance Plan*** (April 3, 2007).7) Maul Foster & Alongi ***Project Completion Report: Lots 7, 8, 9, 16 & 17*** (January 30, 2008).

NARR ID: 5750856
NARR Code: Hazardous Substance/Waste Types
Created By: JWAGGY
Created Date: 09/18/2008
Updated By: KDANA
Updated Date: 07/26/2012
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Organochlorine pesticides (DDD, DDE, DDT, dieldrin) and agricultural metals including arsenic.

NARR ID: 5750858
NARR Code: Site Location
Created By: JWAGGY
Created Date: 09/18/2008
Updated By: KDANA
Updated Date: 07/24/2012
Decode for NarcdID: Site Location
NARR Comments: The site covers five of the lots at the Townsend Business Park. Lots 7, 8 & 9 (now Tax Lot 107) are on the SE corner of the intersection of NE 230th Avenue and Townsend Way. Lots 16 & 17 (Tax lots 506 & 507) are on the north side of Townsend Way to the west of 230th Avenue.

NARR ID: 5754103
NARR Code: Manner of Release
Created By: KDANA
Created Date: 07/24/2012
Updated By: KDANA
Updated Date: 07/24/2012
Decode for NarcdID: Manner of Release
NARR Comments: Regular application of pesticides and herbicides over nearly a century.

NARR ID: 5750865
NARR Code: Project Type
Created By: JWAGGY
Created Date: 09/18/2008
Updated By: JWAGGY
Updated Date: 09/18/2008
Decode for NarcdID: Project Type
NARR Comments: OECDD Industrial Lands review.

NARR ID: 5750860

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

NARR Code: Remedial Action
Created By: JWAGGY
Created Date: 09/18/2008
Updated By: KDANA
Updated Date: 07/26/2012
Decode for NarcdID: Remedial Action
NARR Comments: (05/05/2008 PRS/ICP) Birtcher Development and Investments LLC entered into a prospective purchaser agreement (PPA) with DEQ in the spring of 2007 for Lots 7, 8, 9, 16 & 17 of the Business Park. The environmental contractor proposed stripping off the top 6*** of soil from the five lots. An estimated 10,900 cubic yards of soil would be removed (4,400 cubic yards from Lots 7-9 and 6,500 cubic yards from Lots 16-17). The soil would be shipped to the NW corner of Lot 20 at the Business Park and mixed with 6% cement for future use as structural fill. Confirmation soil samples would then be collected from the five lots.The work was conducted in the summer of 2007. Confirmation sampling found up to 22 mg/kg of arsenic, along with DDD (22 ug/kg), DDE (327 ug/kg), DDT (571 ug/kg), and dieldrin (236 ug/kg). Average concentrations across the site, however, were either at background (for arsenic) or below applicable human health risk-based concentrations (for the pesticides). The concentrations exceed ecological risks for aquatic exposures, but the lots have been capped (with buildings, parking lots, landscaping, etc) which will prevent erosion of soils to Fairview Creek or the Columbia Slough. DEQ issued a No Further Action (NFA) determination for the site in May 2008, conditioned on managing the site to prevent off-site transport of soils to any aquatic environment.

NARR ID: 5754106
NARR Code: Health Threats
Created By: KDANA
Created Date: 07/26/2012
Updated By: KDANA
Updated Date: 07/26/2012
Decode for NarcdID: Health Threats
NARR Comments: The primary health threat was direct contact with contaminated soils.

NARR ID: 5750857
NARR Code: Site History
Created By: JWAGGY
Created Date: 09/18/2008
Updated By: KDANA
Updated Date: 07/31/2012
Decode for NarcdID: Site History
NARR Comments: Townsend Farms operated at the site beginning in the early 1900s. Root vegetables were the primary crop, transitioning to berries (primarily raspberries) toward the end of the 20th century. In the early 2000s, the farms were divided into 20+ lots for redevelopment into the Townsend Business Park. Lots 7, 8, 9, 16 & 17 were sold and redeveloped as the Birtcher Center at Townsend Way. See ECSI #4230 for more information on the Townsend Business Park.

NARR ID: 5750863
NARR Code: 1922
Created By: JWAGGY
Created Date: 09/18/2008
Updated By: KDANA

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Updated Date: 07/30/2012
Decode for NarcdID: Current Site Summary Statement
NARR Comments: Townsend Farms was redeveloped into the Townsend Business Park beginning in 2004. Birtcher Development & Investments entered into a Prospective Purchaser Agreement with DEQ in the spring of 2007 in conjunction with acquiring five lots in the Business Park. Pesticide-contaminated soils were removed from the lots in the summer of 2007, and DEQ issued a No Further Action determination for the cleanup in May 2008.

Site Control:
Site Control #: 758
Control Number: 20
Begin Date: 05/05/2008
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: P. Seidel, DEQ
Last Reviewed Date: Not reported
Last Update By: GWISTAR
Last Updated Date: 03/05/2015
Site Comment: Required development of Soil Management Plan and prevention of off-site migration of contaminated soils that could affect off-site surface water or sediment.

Administrative Action:
Action ID: 9464
Region: Headquarters
Complete Date: 05/08/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/25/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: PPA #07-03: Birtcher Development & Investments, LLC

Action ID: 9459
Region: Northwestern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/25/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: 0
Comments: Industrial Lands Sampling Activities report (for ECSI #4230) is equivalent to an expanded Preliminary Assessment

Action ID: 9411
Region: Northwestern Region
Complete Date: 05/05/2008
Rank Value: Not reported

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Cleanup Flag: False
Created Date: 07/26/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Conditioned on managing site to prevent off-site transport of soils to any aquatic environment

Action ID: 9491
Region: Northwestern Region
Complete Date: 09/30/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/30/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Removal of pesticide-contaminated soils

Action ID: 9454
Region: Northwestern Region
Complete Date: 12/22/2015
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/22/2015
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Other
Further Action: 0
Comments: Notice of Ownership Transfer

Action ID: 9424
Region: Not reported
Complete Date: 10/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/09/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 05/05/2008
Rank Value: Not reported

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Cleanup Flag: False
Created Date: 09/09/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 01/31/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/09/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 01/31/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/09/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 09/26/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/09/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Listing proposed for Townsend Business Park (ECSI #4230)

Action ID: 9499
Region: Northwestern Region
Complete Date: 10/05/2006
Rank Value: Not reported
Cleanup Flag: False

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Created Date: 09/09/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: 0
Comments: Listing proposed for Townsend Business Park (ECSI #4230)

Action ID: 9417
Region: Northwestern Region
Complete Date: 09/18/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/18/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility delisted from Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9418
Region: Northwestern Region
Complete Date: 09/18/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/18/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility delisted from Inventory List
Further Action: 0
Comments: Not reported

CRL:
Facility ID: 4230
Location ID: 59928
Status Code: LIS
Facility Status: Prospective Purchaser Agreement
Lat/Long: 45.5443 / -122.4244

OR ENG CONTROL:
Site Control Sequence #: 758
Site Id: 5066
Control Sequence #: 20
Begin Date: 05/05/2008
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: P. Seidel, DEQ
Last Review Date: Not reported
Last Updated By: GWISTAR
Last Updated Date: 03/05/2015
Group Sequence #: 5

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Control Code: CLPS
Control Description: Contamination left in place, Soil
FK Type Code: 2
Group Code: CIP
Group Description: Contamination Contained in Place
Type Code: E
Type Description: Engineering
Comments: Required development of Soil Management Plan and prevention of off-site migration of contaminated soils that could affect off-site surface water or sediment.

VCS:
ECS Site ID: 4230
Facility Size: 103 acres
Action: Prospective Purchaser Agreement
Start Date: 07/13/2015
End Date: Not reported
Facility Status: Active
Program: VCP
Latitude: 45.5443
Longitude: -122.4244

ECS Site ID: 5066
Facility Size: 20.45 acres
Action: No Further Action (Conditional)
Start Date: 05/05/2008
End Date: 05/05/2008
Facility Status: Completed
Program: ICP
Latitude: 45.5443
Longitude: -122.4244

ECS Site ID: 4785
Facility Size: 10.27 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 03/22/2007
End Date: 03/22/2007
Facility Status: Completed
Program: ICP
Latitude: 45.5443
Longitude: -122.4244

OR BROWNFIELDS:
Geolocation Id: 59928
Status: Prospective Purchaser Agreement
Lat/Long: 45.5443 / -122.424

Geolocation Id: 59928
Status: No Further Action (Conditional)
Lat/Long: 45.5443 / -122.424

HAZMAT:
Responsble Party: ORVIL TRIZ
RP Company: TOWNSEND FARMS
RP Address: 23303 NE SANDY BLVD
RP City,St,Zip: FAIRVIEW, OR 97070

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Facility ID:	010127
OERS Number:	Not reported
Dept Rsp:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Date Added:	07/12/2001
Unit:	Not reported
Agency Phone:	5036182590
Osfm Incident Report Number:	010127
Dept. Responding:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Person Making Report:	THOMAS L GALL
Title:	LT
Agency:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Phone:	5036182590
Date Of Incident:	06/12/2001
Call Time:	2:45:00 PM
In Route:	2:50:00 PM
Arrival:	3:04:00 PM
Depart Scene:	12:00:00 AM
Back In Quarters:	12:00:00 AM
In Service:	5:00:00 PM
Dist Of Incident:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Were State Resources Used?:	False

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Was Oers Notified?:	False
Oers Number:	Not reported
Team Number:	HM03
Agency Report Number:	GFES#014521
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Private Structure
Area Type:	Not reported
Responsible Party(les):	ORVIL TRIZ
Company:	TOWNSEND FARMS
Respcontact:	Not reported
Address:	23303 NE SANDY BLVD
Resp City:	FAIRVIEW
Resp State:	OR
Resp ZipCode:	97070
Phone:	5036661780
Resp Phone2:	Not reported
Weather:	0
Temperature:	0
Wind Speed:	0
Wind Direction:	Not reported
Were Haz Materials Released?:	True
Operation Performed:	Normal Operation
Cause:	Unknown
Vehicle And Cargo:	0
Fixed Property:	200
Total Loss:	$200.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

Chemical:

Chemical Info:	3436
Chemical Id:	6913
Incident Id:	010127
Chemical Name:	CHLORINE
UNNA:	Not reported
Amount At Risk:	150
Amount Released:	0
Amount Measured:	3
Biological:	False
Radiological:	False

Chemical Id:	6913
Chemical Name:	CHLORINE
Hazardous Ingredient:	CHLORINE
Hazardous Class 1:	2.3
Hazardous Class 2:	5.1
Hazardous Rank:	2

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Case Number: 7782505
UNNA Number: 1017
EPA Pest Reg: 168-372
EHA Chem: Y
PSM Chem: Y
CAA 112R Chem: Y

Method:
Method Used Id: 2744
Incident Id: 010127
Identity Method: 3

Method Used Id: 3552
Incident Id: 010127
Identity Method: 5

Released:
Release Behavior Id: 572
Incident Id: 010127
Behavior: 1

Narrative:
Narrative Id: 864
Incident Id: 010127
Incident Narrative: FARM MANAGER REPORTED LEAK IN REGULATORTO CHLORINE TANK, HM03 RESPONDED, FOUND AREA EVACUATED AND TANK CONTAINED IN PUMP HOUSE. TEAM WAS ORGANIZED, BRIEFED, PLAN MADE, SAFETY PROCEDURES REVIEWED AND IN PLACE, ENTRY WAS MADE AND VALVE SHUT OFF.
Incident Date: 6/12/2001

NPDES:
WQ File Nbr: 112451
Legal Name: TOWNSEND FARMS, INC.
Region: NWR
Pri SIC: 1611
Facility Type: HIGHWAY & STREET CONSTRUCTION
Latitude: 45.5443
Longitude: -122.4244
Category: STM
Permit Type: GEN12C
Permit Active: True
Is Active?: Not reported
Permit Description: Stormwater; NPDES construction more than 1 acre disturbed ground
Expiration Date: 12/14/2020
EPA Number: ORR108362
UIC Facility: False
Admin Agent: NW Region Office
Last Action Date: 02/02/2016
Permit Writer: Jurries
Compliance Inspector: Jurries
DMR Reviewer: Jurries
Application Number: 957935
Class: MINOR
Start Date: 07/25/2003

TOWNSEND BUSINESS PARK - BIRTCHER (Continued) **S105527499**

Region Decode: North West Region

OR UIC:
UIC Well #: 1
Type: 5D4
Type Description: Industrial Storm Water Drainage
Status: Active
UIC Number: 14199
Facility Status: Not Registered
Lat/Long: 45.5439 / -122.4223

36
WNW
1/2-1
0.694 mi.
3664 ft.

DRY CLEANING CHEMICAL STORAGE **ECSI** **S104798163**
20757 NE SANDY BLVD. **N/A**
FAIRVIEW, OR 97024

Relative:
Lower

Actual:
76 ft.

ECSI:
State ID Number: 788
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: Suspect
FACA ID: 7681
Further Action: 258
Lat/Long (dms): 45 32 38.80 / -122 26 48.50
County Code: 26.00
Score Value: Not reported
Cerclis ID: 987189522
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 28
Qtr Section: Not reported
Tax Lots: 300
Size: 0.24 acre
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 12/06/2006
Created Date: 01/19/1989
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Medium
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: FDS Diving
Alias Name: Brake & Muffler Shop
Alias Name: Rivercity Cedar
Alias Name: River City Cedar

Narrative:
NARR ID: 5726358
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002

DRY CLEANING CHEMICAL STORAGE (Continued) **S104798163**

Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (6/13/94 KPD/SRS) This site was discovered by EPA during a visit to the adjacent Dirt & Aggregate Interchange property (ECSI #874). EPA observed several 55-gallon drums on the site, some of which were labelled as containing dry-cleaning solvents. Several bucket-sized containers were also on-site. It is not known who owns the property. (8/31/00 JMW/SAP) FDS Diving is current property owner/operator. Several 55-gallon drums were observed on the property in August 2000. Contents in drums are unknown.

NARR ID: 5726359
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: EPA Potential Hazardous Waste Site Identification form. Project Manager files - East Multnomah County (EMC).

NARR ID: 5726360
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: dry cleaning solvents

NARR ID: 5726361
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: This site is located in the East Multnomah County Groundwater Study Area (ECSI #1479). Gravel and sand aquifers beneath the site (the Troutdale Aquifers) are used for backup municipal drinking water supply. Industrial solvents have been detected in portions of the aquifers, and the study is an attempt to determine the sources and extent of the contamination.

NARR ID: 5726362
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (6/13/94 KPD/SRS) EPA performed an informal PA at the site (by gathering together information from other sites), and concluded that no further federal action was necessary. SRS believes that a basic state PA will needed to determine if any further state action is necessary. Because the site is in an area with high groundwater

DRY CLEANING CHEMICAL STORAGE (Continued) **S104798163**

targets, SRS recommends that the PA be given a medium priority. (11/10/97 LSK) Site re-evaluated as part of review of all sites within the Columbia Slough Study Area. Located south of the Upper Slough. Medium for site drive-by recommended to see if barrels still on-site and appearance of site otherwise. (8/31/00 JMW/SAP) Site visit conducted in August 2000. Two active operations, FDS Diving and River City Cedar, conducting business on-site. Several 55-gallon drums observed along northwest corner of property.

Administrative Action:
Action ID: 9470
Region: Northwestern Region
Complete Date: 11/10/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: Medium
Comments: Medium for site drive-by.

Action ID: 9426
Region: Northwestern Region
Complete Date: 11/10/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9421
Region: Not reported
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: Site added to CERCLIS
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 06/13/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

DRY CLEANING CHEMICAL STORAGE (Continued) **S104798163**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9457
Region: Not reported
Complete Date: 07/06/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Basic Preliminary Assessment
Further Action: Not reported
Comments: Not reported

Action ID: 9444
Region: Not reported
Complete Date: 07/06/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: No Further Remedial Action Planned under Federal program
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 06/13/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

DRY CLEANING CHEMICAL STORAGE (Continued) **S104798163**

Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Headquarters
Complete Date: 06/15/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Medium
Comments: Not reported

Operations:

Operation Id: 132086
Operation Status: Unknown
Common Name: Dry Cleaning Chemical Storage
Yrs of Operation: unknown
Comments: Not reported
Updated Date: 09/06/2000
Updated By: jmw
Decode for OpstatID: Unknown

Operation Id: 132087
Operation Status: Active
Common Name: FDS Diving
Yrs of Operation: unknown
Comments: Diving, construction, and salvage operations.
Updated Date: 09/06/2000
Updated By: jmw
Decode for OpstatID: Active
Operations SIC Id: 197173
SIC Code: 1798
Created By: Not reported
Created Date: 12/17/2002

DRY CLEANING CHEMICAL STORAGE (Continued) **S104798163**

Operation Id:	132088
Operation Status:	Unknown
Common Name:	River City Cedar
Yrs of Operation:	February 2000 - current
Comments:	Active operation, lumber and wood products.
Updated Date:	09/06/2000
Updated By:	jmw
Decode for OpstatID:	Unknown
Operations SIC Id:	197174
SIC Code:	2431
Created By:	Not reported
Created Date:	12/17/2002

37
South
1/2-1
0.849 mi.
4481 ft.

Relative:
Higher

Actual:
204 ft.

LSI CAMPUS **ECSI S110730120**
22315 NE GLISAN ST. **CRL N/A**
GRESHAM, OR 97030 **INST CONTROL**
VCP
BROWNFIELDS
UIC

ECSI:

State ID Number:	1764
Brown ID:	Brownfield Site - Assistance From Other Public Agencies
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	Listed on the CRL/Inventory
FACA ID:	40323
Further Action:	0
Lat/Long (dms):	45 31 32.20 / -122 25 41.50
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	34
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	325 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	04/26/2012
Created Date:	10/24/1995
Decode For RegionID:	Northwest Region
Decode For BrownID:	Brownfield Site - Assistance from Other Public Agencies
Decode For Furtheract:	Not reported
Decode For Investstat:	Listed on the CRL/Inventory
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name:	ON Semiconductor
Alias Name:	Project BUS Distribution Center
Alias Name:	Subaru of America
Alias Name:	Gresham Vista Property
Alias Name:	East Campus
Alias Name:	West Campus

LSI CAMPUS (Continued) **S110730120**

Alias Name: Port of Portland
Alias Name: LSI Logic
Alias Name: McGill Nursery

Hazardous Release:
Substance ID.: 121516
Haz Release ID: 380328
Qty Released: Not reported
Date Released: Not reported
Update Date: 01/25/1996
Update By: Not reported
Substance Code: 60-57-1
Substance Name: DIELDRIN
Substance Abbrev.: Not reported
Substance Alias ID: 318927
Sub Alias Name: HEOD
Substance Alias ID: 318928
Sub Alias Name: OCTALOX
Sampling Result ID: 344021
Feature Id: Not reported
Hazard Release Id: 380328
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/26/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.26 ppm
Last Update By: jmd
Update Date: 01/25/1996
Decode for MediumID: Soil

Substance ID.: 121847
Haz Release ID: 380329
Qty Released: Not reported
Date Released: Not reported
Update Date: 01/25/1996
Update By: Not reported
Substance Code: 88-85-7
Substance Name: DINOSEB
Substance Abbrev.: Not reported
Substance Alias ID: 317707
Sub Alias Name: BUTAPHENE
Substance Alias ID: 317708
Sub Alias Name: DINITRO-6-sec-BUTYLPHENOL,2,4-
Substance Alias ID: 317709
Sub Alias Name: DINITROBUTYLPHENOL
Substance Alias ID: 317710
Sub Alias Name: DNBP
Substance Alias ID: 317711
Sub Alias Name: PHENOL,2-(1-METHYLPROPYL)-4,6-DINITRO-
Substance Alias ID: 317712
Sub Alias Name: PHENOL,2-sec-BUTYL-4,6-DINITRO-

LSI CAMPUS (Continued) **S110730120**

Sampling Result ID: 344022
Feature Id: Not reported
Hazard Release Id: 380329
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 09/25/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 42 ppm
Last Update By: jmd
Update Date: 01/25/1996
Decode for MediumID: Soil

Substance ID.: 122012
Haz Release ID: 380330
Qty Released: Not reported
Date Released: Not reported
Update Date: 01/25/1996
Update By: Not reported
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 344023
Feature Id: Not reported
Hazard Release Id: 380330
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/25/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 140,000 ppm
Last Update By: jmd
Update Date: 01/25/1996
Decode for MediumID: Soil

LSI CAMPUS (Continued) **S110730120**

Substance ID.: 121059
Haz Release ID: 380331
Qty Released: Not reported
Date Released: Not reported
Update Date: 01/25/1996
Update By: Not reported
Substance Code: 1336-36-3
Substance Name: PCBs
Substance Abbrev.: Not reported
Substance Category ID: 8558
Substance Category: PCB Substances for the OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8558
Substance Category: PCB Substances for the OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317029
Sub Alias Name: BIPHENYL,POLYCHLORO-
Substance Alias ID: 317030
Sub Alias Name: CHLORINATED BIPHENYL
Substance Alias ID: 317031
Sub Alias Name: CHLOROBIPHENYL
Substance Alias ID: 317032
Sub Alias Name: POLYCHLORINATED BIPHENYLs
Substance Alias ID: 317033
Sub Alias Name: POLYCHLOROBIPHENYL
Sampling Result ID: 344024
Feature Id: Not reported
Hazard Release Id: 380331
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/25/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.24 ppm
Last Update By: jmd
Update Date: 01/25/1996
Decode for MediumID: Soil

Narrative:
NARR ID: 5751090
NARR Code: Site Contacts
Created By: CHARMAN
Created Date: 01/07/2009
Updated By: RWELLS
Updated Date: 01/28/2011
Decode for NarcdID: Site Contacts
NARR Comments: Mike Williams, Oregon Economic and Community Development Dept., Community Assistance, 775 Summer St. NE, Ste 200, Salem, OR 97301

LSI CAMPUS (Continued) **S110730120**

Phone: (503) 986-0141email: michael.williams@state.or.us

NARR ID: 5735432
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 06/27/2003
Decode for NarcdID: Contamination
NARR Comments: McGill Nursery continues to operate on much of the site acreage; however LSI Logic Corporation is currently completing construction of a chip fabrication unit on the site. In 1996, LSI purchased the site from McGill. Site contamination is associated with pesticide storage and mixing areas and placement of roadwork fill containing asphaltic material on-site.

NARR ID: 5743709
NARR Code: General Site Description
Created By: GWISTAR
Created Date: 06/27/2003
Updated By: GWISTAR
Updated Date: 06/27/2003
Decode for NarcdID: General Site Description
NARR Comments: The site, which comprises a number of separate parcels totaling about 325 acres, has been used since the early 1900s primarily for agricultural purposes including the cultivation of trees and grasses.

NARR ID: 5735433
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Pesticides, petroleum hydrocarbons, and petroleum hydrocarbon constituents including polynuclear aromatic hydrocarbons (PAHs).

NARR ID: 5735435
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Pesticide and herbicide contamination associated with long-term use of these materials and perhaps mixing and storage operations. Petroleum hydrocarbon and PAH contamination from roadwork debris and soil brought onto the site as fill. Minor releases of petroleum products from tanks. Dates of release not known.

NARR ID: 5749302
NARR Code: Project Activity Status
Created By: JWAGGY
Created Date: 05/22/2007
Updated By: JWAGGY
Updated Date: 05/22/2007
Decode for NarcdID: Project Activity Status

LSI CAMPUS (Continued) **S110730120**

NARR Comments: Project file archived 5/11/2007.

NARR ID: 5735437
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soil contamination confined to surface and near-surface soil. Deepest contamination due to placement rather than vertical migration. On-site monitoring wells have identified no impacts to shallow groundwater, and no evidence of off-site releases has been found.

NARR ID: 5751062
NARR Code: Project Type
Created By: GWISTAR
Created Date: 12/30/2008
Updated By: GWISTAR
Updated Date: 01/13/2011
Decode for NarcdID: Project Type
NARR Comments: OECDD Industrial Lands reviews (2008 and 2011).

NARR ID: 5735438
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: RWELLS
Updated Date: 06/18/2013
Decode for NarcdID: Remedial Action
NARR Comments: Following investigation activities in 1995 and 1996, VCP staff determined that most site contamination was below DEQ residential Soil Cleanup Levels, and that site groundwater had not been impacted. A removal of a small quantity of contaminated soil in the East Tractor Shed and Boneyard areas was completed in 1996. In 1997 a determination was made that two areas (Northwest Nursery Fill Area and Berm Area) contained contaminant concentrations exceeding residential but below industrial standards, and that no further site action was required. The NFA determination for the two areas is contingent on use in the areas remaining industrial. The remaining portions of the site have received an unqualified NFA determination.(CWH/CU &ER 11/25/08) A Phase I ESA has been submitted to DEQ for our review. The ESA is for the ***LSI Campus, West and East***, and is dated August 6, 2008. The ESA was produced with the goal of qualifying the site for the Oregon list of Certified Industrial Lands.(CWH/CU&ER 1/7/2009) DEQ completed our review of the Phase I ESA for the East and West Campus in early January 2009. DEQ concurred with findings and recommendations of the August 2008 ESA. The recommendations for additional site investigation and actions were as follows:West Campus (a)Sampling of agriculturally-managed surface soils to evaluate the potential presence of persistent pesticides and herbicides and several metals. Furthermore, that agricultural soil sampling follow DEQs Guidance for Evaluating Residual Pesticides on Lands Formerly Used for Agricultural Production, produced in 2006.(b)Evaluate specific features in the former equipment maintenance shop and main barn specifically analysis of subsurface soils adjacent to the service pit in the shop and an

LSI CAMPUS (Continued) **S110730120**

apparent storm drain at the southeast corner of the barn that may be a dry well/underground injection control (UIC) device.(c)Further assessment on the north ends of the West and East Tractor Sheds to rectify apparent discrepancies in prior descriptions of sampling locations near a removed underground storage tank (UST).(d)Sampling and analysis of a Holding Pond located in the northern half of the West Campus for pesticides/herbicides, semivolatile organic compounds (SVOCs), and several metals.(e)Analysis of idle on-site groundwater supply wells and subsequent action to lock and preserve, or decommission these wells.(f)Proper chemical container management should be instituted and assurances gained from current or future lessees to ensure that they will properly dispose of all chemical containers at the time of any future property sale.(g)Polychlorinated biphenyl (PCB) containing light ballasts must be properly removed and handled prior to any future building demolition. In addition, the property owner or lessor should remove any light tubes and switches that contain mercury.(h)Kleinfelder observed several areas with potential asbestos-containing material (ACM, see Phase I ESA for details) and recommended that an ACM survey be performed. Furthermore, that if ACM is present that an abatement plan must be designed by an Asbestos Hazard Emergency Response Act (AHERA)-accredited designer and contractors.(i)Kleinfelder observed suspected lead-containing paint on several structures (see Phase I ESA) and recommended that a survey be performed on those structures. If lead-containing paint is found to be present, then a plan will need to be developed to manage lead-containing paint and structures during future demolition and waste disposal.East Campus (a)Sampling of agriculturally-managed surface soils to evaluate the potential presence of persistent pesticides and herbicides and several metals. Furthermore, that agricultural soil sampling follow DEQs Guidance for Evaluating Residual Pesticides on Lands Formerly Used for Agricultural Production.(b)Analysis of the idle on-site groundwater supply well and subsequent action to lock and preserve, or decommission the well.(RWA 2_2_2011) On 2010, a Residual Pesticide/Herbicide Screen was performed on the East Campus as part of Industrial Land cerfication with Business Oregon. The screening was conducted in accordance with Phase I and II ASTM standards and OR DEQ Guidance for Evaluating Residual Pesticides on Lands Formerly Used for Agricultural Production. No Further Action is recommended.(RWA_6_17_2013) In November, 2011, the Port of Portland purchased property from the LSI Corporation. The tax account numbers associated with the purchased property included:Parcel IoR321 969 (Map and Tax Lot No. 1N3E34AC-01500)oR322 003 (Map and Tax Lot No. 1N3E34AC-01600)oR322 043 (Map and Tax Lot No. 1N3E34D-00300)Parcel II, R321 963 (Map and Tax Lot No. 1N3E34D-00400)Parcel III, R321 987 (Map and Tax Lot No. 1N3E34D-00500)Parcel IV, R321 955 (Map and Tax Lot No. 1N3E34C-00500)Parcel V, R322 038 (Map and Tax Lot No. 1N3E34CD-00400)Parcel VI, R321 979 (Map and Tax Lot No. 1N3E34CD-00100)Parcel VII, R321 978 (Map and Tax Lot No. 1N3E34CD-0300)Parcel VIII, R321 985 (Map and Tax Lot No. 1N3E34CD-00200)Parcel IX, R 321 999(Map and Tax Lot No. 1N3E34DC-01300)Parcel X, R321 959 (Map and Tax Lot No. 1N3E34D-00200)Parcel XI, R321 959 (Map and Tax Lot No. 1N3E34D-00200)These tax account numbers are located within the boundaries of the September 24, 1997 NFA for the LSI Corporation. The terms of the LSI Corporation NFA, including the Easement and Equitable Servitude requirements for portions of the LSI property,

LSI CAMPUS (Continued) **S110730120**

apply to the Port of Portland property.

NARR ID: 5735439
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Health Threats
NARR Comments: None, provided that land use in the two site areas evaluated using Industrial Soil Cleanup Levels remains industrial or similar. Remaining portions of the site pose no significant threat under any scenario.

Site Control:
Site Control #: 157
Control Number: 5
Begin Date: 09/15/1997
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Dan Hafley
Last Reviewed Date: 12/10/2004
Last Update By: JPALMER
Last Updated Date: 06/10/2005
Site Comment: Site investigation and contaminant removal activities were completed in early 1997 under Voluntary Cleanup Program staff. Two site areas (Northwest Nursery Fill Area and Soil Berm Area) contain contaminant concentrations above Residential but below Industrial DEQ Soil Cleanup Levels. The remainder of the site is below Residential levels. DEQ has determined that no further site action is required. However, the NFA for the two above-described areas is contingent on current and future use in these areas remaining industrial or similar uses where less restrictive cleanup standards are warranted. This was formalized in a restriction (Equitable Servitude and Easement) recorded on 9/15/97. There are no restrictions on use of the remainder of the site.

Administrative Action:
Action ID: 9495
Region: Northwestern Region
Complete Date: 01/28/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/12/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Other recommendation
Further Action: 0
Comments: Residual Pesticide/Herbicde Phase II ESA submitted. ESA meets appropriate ASTM and DEQ Agricultural Guidance criteria. No Further Action Required.

Action ID: 9434
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False

LSI CAMPUS (Continued) **S110730120**

Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: Not reported
Comments: Deed restriction requiring zoning/use remain industrial.

Action ID: 9491
Region: Northwestern Region
Complete Date: 10/07/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Removal of contaminated soil.

Action ID: 9438
Region: Headquarters
Complete Date: 10/31/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Headquarters
Complete Date: 10/31/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Headquarters
Complete Date: 07/22/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

LSI CAMPUS (Continued) **S110730120**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Headquarters
Complete Date: 07/22/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 09/24/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 05/26/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 05/26/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

LSI CAMPUS (Continued) **S110730120**

Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 10/29/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: 09/30/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 10/29/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region

LSI CAMPUS (Continued) **S110730120**

Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Northwestern Region
Complete Date: 10/29/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9506
Region: Northwestern Region
Complete Date: 10/29/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Investigation recommended (SI)
Further Action: Not reported
Comments: Not reported

Action ID: 9459
Region: Northwestern Region
Complete Date: 10/30/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action

LSI CAMPUS (Continued) **S110730120**

Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9466
Region: Northwestern Region
Complete Date: 01/07/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/29/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Periodic Review
Further Action: 0
Comments: A Phase I ESA was submitted to DEQ in November 2008 in order to qualify the undeveloped portions of this property (West and East Campus) for the Oregon Certified Industrial Lands program.

Action ID: 9470
Region: Northwestern Region
Complete Date: 01/07/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/07/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: Medium-Low
Comments: Further work will likely move forward under IGA between DEQ and OECDD.

Operations:
Operation Id: 133092
Operation Status: Active
Common Name: McGill Nursery
Yrs of Operation: Not reported
Comments: Operating Nursery w/large cultivation areas. LSI currently building chip fabrication building in center of property.
Updated Date: 01/25/1996
Updated By: jmd
Decode for OpstatID: Active

CRL:
Facility ID: 1764
Location ID: 40323
Status Code: LIS
Facility Status: No Further Action (Conditional)
Lat/Long: 45.5256 / -122.4282

OR INSTUTIONAL CONTROL:
Site Control Sequence #: 157
Site Id: 1764
Control Sequence #: 5

LSI CAMPUS (Continued) **S110730120**

Begin Date:	09/15/1997
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	Dan Hafley
Last Review Date:	12/10/2004
Last Updated By:	JPALMER
Last Updated Date:	06/10/2005
Group Sequence #:	2
Control Code:	USL
Control Description:	Use Restriction Land
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	Site investigation and contaminant removal activities were completed in early 1997 under Voluntary Cleanup Program staff. Two site areas (Northwest Nursery Fill Area and Soil Berm Area) contain contaminant concentrations above Residential but below Industrial DEQ Soil Cleanup Levels. The remainder of the site is below Residential levels. DEQ has determined that no further site action is required. However, the NFA for the two above-described areas is contingent on current and future use in these areas remaining industrial or similar uses where less restrictive cleanup standards are warranted. This was formalized in a restriction (Equitable Servitude and Easement) recorded on 9/15/97. There are no restrictions on use of the remainder of the site.

VCS:

ECS Site ID:	1764
Facility Size:	325 acres
Action:	No Further Action (Conditional)
Start Date:	09/24/1997
End Date:	09/24/1997
Facility Status:	Completed
Program:	VCS
Latitude:	45.52559
Longitude:	-122.4282

OR BROWNFIELDS:

Geolocation Id:	40323
Status:	No Further Action (Conditional)
Lat/Long:	45.5256 / -122.428

OR UIC:

UIC Well #:	1
Type:	5D4
Type Description:	Industrial Storm Water Drainage
Status:	Active
UIC Number:	14198
Facility Status:	Not Registered
Lat/Long:	45.5247 / -122.4308

38
East
1/2-1
0.850 mi.
4486 ft.

HEATING OIL TANK
2525 NE 238TH DRIVE
TROUTDALE, OR 97060

ECSI
LUST
VCP

S102417194
N/A

Relative:
Lower

Actual:
74 ft.

ECSI:

State ID Number:	4182
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	No Further Action
FACA ID:	83960
Further Action:	0
Lat/Long (dms):	45 32 32.30 / -122 25 7.70
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	27
Qtr Section:	AD
Tax Lots:	300
Size:	0.86 acres
NPL:	False
Orphan:	False
Updated By:	KDANA
Update Date:	02/20/2014
Created Date:	07/21/2004
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Hazardous Release:

Substance ID.:	121983
Haz Release ID:	388192
Qty Released:	unknown
Date Released:	unknown
Update Date:	02/19/2014
Update By:	KDANA
Substance Code:	ECD173
Substance Name:	GASOLINE
Substance Abbrev.:	Not reported
Substance Category ID:	8530
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8530
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Sampling Result ID:	350676

HEATING OIL TANK (Continued) **S102417194**

Feature Id: 0
Hazard Release Id: 388192
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 7 ft bgs
Start Date: 04/30/2004
End Date: 04/30/2004
Min Concentration: Not reported
Max Concentration: 264.00
Sample Comment: up to 264 ppm
Last Update By: KDANA
Update Date: 02/19/2014
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 388193
Qty Released: unknown
Date Released: unknown
Update Date: 02/19/2014
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 350677
Feature Id: 0
Hazard Release Id: 388193
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 7 ft bgs
Start Date: 04/30/2004
End Date: 04/30/2004
Min Concentration: Not reported
Max Concentration: 14300.00
Sample Comment: up to 14,300 ppm
Last Update By: KDANA
Update Date: 02/19/2014
Decode for MediumID: Soil

Narrative:
NARR ID: 5745227

HEATING OIL TANK (Continued) **S102417194**

NARR Code: Contamination
Created By: LGIBSON
Created Date: 07/21/2004
Updated By: KDANA
Updated Date: 02/24/2014
Decode for NarcdID: Contamination
NARR Comments: (08/16/2004 CK/VCP) The site is a vacant former Shell automotive service station, which reportedly operated until the late 1970s or early 1980s. The former drywell was discovered and unearthed during soil excavation and geotechnical testing activities conducted in April through June 2004. The drywell was located beneath the floor of the western portion of the former Shell station building. The drywell depth extended from approximately 1.5 feet below ground surface (bgs) to 7.5 ft bgs. The drywell was completely removed on June 14, 2004. Upon removal, it was noted that there was petroleum odor and soil discoloration inside the entire length of the drywell. The drywell had gravel surrounding its entire length and its base was set into a weathered sandstone layer.Test pits (TP-1 through TP-6) were excavated and soil samples collected and field inspected. TP-1 was the only test pit with evidence of petroleum contamination. A sample of the weathered sandstone at 7 feet bgs contained 14,300 parts per million (ppm) oil-range petroleum hydrocarbons.

NARR ID: 5755031
NARR Code: Data Sources
Created By: KDANA
Created Date: 02/19/2014
Updated By: KDANA
Updated Date: 02/20/2014
Decode for NarcdID: Data Sources
NARR Comments: Hahn & Associates ***Soil Cleanup and Risk Evaluation Report*** (August 5, 2004).LUST file #26-99-0618.LUST file #26-97-0032.

NARR ID: 5755030
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 02/19/2014
Updated By: KDANA
Updated Date: 02/19/2014
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum hydrocarbons

NARR ID: 5755028
NARR Code: Site Location
Created By: KDANA
Created Date: 02/19/2014
Updated By: KDANA
Updated Date: 02/20/2014
Decode for NarcdID: Site Location
NARR Comments: The site is located on the SW corner of the intersection of NE 238th Drive and NE Sandy Blvd. The Soil Cleanup report and NFA letter incorrectly referenced 2602 NE 238th, which is on the SE corner of the intersection.

NARR ID: 5755029
NARR Code: Manner of Release
Created By: KDANA

HEATING OIL TANK (Continued) **S102417194**

Created Date: 02/19/2014
Updated By: KDANA
Updated Date: 02/24/2014
Decode for NarcdID: Manner of Release
NARR Comments: Apparent dumping of wastes down a drywell, likely in the 1970s.

NARR ID: 5745334
NARR Code: Remedial Action
Created By: CKAUFMA
Created Date: 08/23/2004
Updated By: KDANA
Updated Date: 02/24/2014
Decode for NarcdID: Remedial Action
NARR Comments: (08/16/2004 CK/VCP) The former UST area (located in the eastern portion of the property) was issued a No Further Action (NFA) by DEQ on October 23, 2000 after approximately 372 tons of gasoline contaminated soils mixed with construction debris and approximately 2,000 gallons of perched water was pumped from the UST excavation area. See file #26-99-0618 for more information.The drywell and associated petroleum contaminated soil was removed in June 2004. Excavation continued laterally until all discolored soils were removed. Excavation continued vertically until refusal was encountered (dense sandstone) at 9-13 ft bgs. Fifty (50) cubic yards of contaminated soil plus an additional 60 cubic yards of surrounding soil were removed and sent to the Hillsboro Landfill. Confirmation soil sampling indicated a maximum of 1,090 ppm oil-range hydrocarbons at 9.5 ft bgs. Continued investigation indicated the vertical extent was a maximum of 12 ft bgs. The remaining in-place area of soil contamination is estimated to be about 50 cubic yards of contaminated sandstone.A site-specific risk-based concentration (RBC) of 20,000 ppm total petroleum hydrocarbons (TPH) was developed using fractionation data, which is significantly higher than the highest detected residual level of 1,090 ppm TPH. Groundwater was not observed during the investigation and excavation activities at the site.

Administrative Action:
Action ID: 9519
Region: Northwestern Region
Complete Date: 07/20/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/19/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 08/16/2004
Rank Value: Not reported
Cleanup Flag: True
Created Date: 02/19/2014
Decode for AgencyID: Department of Environmental Quality

HEATING OIL TANK (Continued) **S102417194**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9449
Region: Northwestern Region
Complete Date: 08/16/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/19/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 07/21/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/21/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 08/16/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/23/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135931
Operation Status: Inactive
Common Name: Shell Service Station
Yrs of Operation: late 1960s to early 1980s
Comments: Not reported
Updated Date: 02/19/2014
Updated By: KDANA
Decode for OpstatID: Inactive

HEATING OIL TANK (Continued) **S102417194**

Operations SIC Id: 199367
SIC Code: 5541
Created By: KDANA
Created Date: 02/19/2014

LUST:
Region: North Western Region
Facility ID: 26-97-0032
Cleanup Received Date: 01/08/1997
Cleanup Start Date: 01/08/1997
Cleanup Complete Date: 06/23/1997
Decode for Region: North West Region

Region: North Western Region
Facility ID: 26-99-0618
Cleanup Received Date: 05/21/1999
Cleanup Start Date: 05/21/1999
Cleanup Complete Date: 08/08/2000
Decode for Region: North West Region

VCS:
ECS Site ID: 4182
Facility Size: 0.86 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 08/16/2004
End Date: 08/16/2004
Facility Status: Completed
Program: ICP
Latitude: 45.54229
Longitude: -122.4188

39
East
1/2-1
0.951 mi.
5020 ft.

Relative:
Lower

Actual:
74 ft.

ODOT - VACANT PROPERTY **ECSI S106044963**
I-84 AND 238TH DRIVE INTERCHANGE **VCP N/A**
WOOD VILLAGE, OR 97060

ECSI:
State ID Number: 3320
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 831
Investigation: No Further Action
FACA ID: 44739
Further Action: 0
Lat/Long (dms): 45 32 33.00 / -122 25 .10
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 26
Qtr Section: Not reported
Tax Lots: 100

ODOT - VACANT PROPERTY (Continued) **S106044963**

Size: 0.46 acre
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 05/23/2007
Created Date: 04/12/2002
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name: Oregon Department of Transportation
Alias Name: Shilo Inn Motel

Narrative:
NARR ID: 5742325
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 06/04/2003
Decode for NarcdID: Remedial Action
NARR Comments: (4/11/02 JMW/SAS) Entered into the Environmental Cleanup Site Information database in April 2002. Site entered the Independent Cleanup Pathway Program. (11/12/02 MTP/VCP) Four sampling investigations have been conducted at the site. Investigations in 1999 and 2000 identified three areas of petroleum contamination. In 2001, about 765 tons of petroleum-contaminated soil (PCS) were removed from these three areas. Confirmation sampling showed potentially significant heavy oil concentrations remaining in site soil. ODOT assessed the residual risk posed by the PCS in accordance with DEQ's Risk-based Decision Making for the Remediation of Petroleum-Contaminated Sites. DEQ reviewed the resulting Risk-Based Corrective Action report and concluded that the remaining contamination may present an unacceptable risk. DEQ requested that ODOT conduct additional investigation to better establish the extent of contamination and collect additional information to support a risk evaluation.ODOT documented the results of the additional investigation in a report entitled Subsurface Investigation for Risk-based Closure, dated August 2002. Although the analysis showed a potentially unacceptable risk from benzo(a)pyrene in shallow soil, DEQ determined that the risk was acceptable given that: 1) the extent of contamination has been adequately determined; and 2) areas of significant impact represent a relatively small area of the site as a whole. The impacted area is covered by a foot or more of clean fill and gravel and a 3-inch asphalt cap, thus greatly reducing exposure to site contamination. There are no current or planned underground utilities within the impacted areas, so it is unlikely that the impacted area will be disturbed during site development. It appears that some of the elevated total petroleum hydrocarbon (TPH) and polynuclear aromatic hydrocarbon (PAH) concentrations are attributable to disseminated asphalt in the samples.DEQ made a no-further-action determination for the site in November 2002.

Administrative Action:
Action ID: 9443
Region: Northwestern Region

ODOT - VACANT PROPERTY (Continued) **S106044963**

Complete Date: 11/12/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 11/12/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 04/11/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 11/12/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: Not reported
Comments: Not reported

VCS:
ECS Site ID: 3320
Facility Size: 0.46 acre

ODOT - VACANT PROPERTY (Continued) **S106044963**

Action:	NO FURTHER STATE ACTION REQUIRED
Start Date:	11/12/2002
End Date:	11/12/2002
Facility Status:	Completed
Program:	ICP
Latitude:	45.54240
Longitude:	-122.4166

Count: 4 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FAIRVIEW	S118374558	PORTLAND WATER BUREAU WELL #14	COLUMBIA SOUTH SHORE WELLFIELD	97024	ECSI, VCP
PORTLAND	S110072106	TRI-MET SOUTH CORRIDOR EXTENSION	ADJACENT TO I-205, BETWEEN NE		ECSI, VCP
PORTLAND	S106497104	V.A.- COLUMBIA SOUTH SHORE WELLFIE	N OF COLUMBIA/SANDY BLVDS. BET		ECSI
TROUTDALE	U003115602	M & D AUTOMOTIVE	20102 NE SANDY BLVD	97060	LUST, UST

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: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
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: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
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: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/06/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/06/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
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: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
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: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
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: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

ECSI: Environmental Cleanup Site Information System

Sites that are or may be contaminated and may require cleanup.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 01/14/2016
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

CRL: Confirmed Release List and Inventory

All facilities with a confirmed release.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

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

SWF/LF: Solid Waste Facilities List

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: 01/19/2016
Date Data Arrived at EDR: 01/20/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 55

Source: Department of Environmental Quality
Telephone: 503-229-6299
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

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: 01/13/2016
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5790
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

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: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

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

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
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: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

UST: Underground Storage Tank Database
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: 01/26/2016
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks

Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/21/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 42

Source: Office of State Fire Marshal
Telephone: 503-378-3473
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

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: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

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: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

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: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Recorded at ESCI Sites

Engineering controls are physical measures selected or approved by the Director for the purpose of preventing or minimizing exposure to hazardous substances. Engineering controls may include, but are not limited to, fencing, capping, horizontal or vertical barriers, hydraulic controls, and alternative water supplies.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

INST CONTROL: Institutional Controls Recorded at ESCI Sites

An institutional control is a legal or administrative tool or action taken to reduce the potential for exposure to hazardous substances. Institutional controls may include, but are not limited to, use restrictions, environmental monitoring requirements, and site access and security measures.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VCS: Voluntary Cleanup Program Sites

Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

Date of Government Version: 01/05/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 24

Source: DEQ
Telephone: 503-229-5256
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

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: 12/28/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects

Brownfields investigations and/or cleanups that have been conducted in Oregon.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-6801
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Semi-Annually

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: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facility Location Listing
A listing of recycling facility locations.

Date of Government Version: 12/01/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 55
Source: Department of Environmental Quality
Telephone: 503-229-5353
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

HIST LF: Old Closed SW Disposal Sites
A list of solid waste disposal sites that have been closed for a long while.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 07/08/2003
Date Made Active in Reports: 07/18/2003
Number of Days to Update: 10
Source: Department of Environmental Quality
Telephone: 503-229-5409
Last EDR Contact: 07/08/2003
Next Scheduled EDR Contact: N/A
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: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
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: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

AOC MU: East Multnomah County Area
Approximate extent of TSA VOC plume February , 2002

Date of Government Version: N/A
Date Data Arrived at EDR: 10/07/2002
Date Made Active in Reports: 10/22/2002
Number of Days to Update: 15
Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AOC COL: Columbia Slough
Columbia Slough waterway boundaries.

Date of Government Version: 08/10/2005
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/16/2006
Number of Days to Update: 30

Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US HIST CDL: National Clandestine Laboratory Register

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: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

CDL: Uninhabitable Drug Lab Properties

The properties listed on these county pages have been declared by a law enforcement agency to be unfit for use due to meth lab and/or storage activities. The properties are considered uninhabitable until cleaned up by a state certified decontamination contractor and a certificate of fitness is issued by the Oregon Health Division.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 32

Source: Department of Consumer & Business Services
Telephone: 503-378-4133
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

CDL 2: Clandestine Drug Lab Site Listing

A listing of clandestine drug lab site locations included in the Incident database.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 15

Source: Oregon State Police
Telephone: 503-373-1540
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
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: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
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: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

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: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

SPILLS: Spill Data
Oil and hazardous material spills reported to the Environmental Response Program.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/20/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 55

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Semi-Annually

HAZMAT: Hazmat/Incidents
Hazardous material incidents reported to the State Fire Marshal by emergency responders. The hazardous material may or may not have been released.

Date of Government Version: 11/17/2015
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 41

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

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: 05/01/2006
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
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: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
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: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
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: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
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: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
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: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/04/2016
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: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
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: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
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: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
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: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2016
Next Scheduled EDR Contact: 04/25/2016
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: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
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: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

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: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

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: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
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: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
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: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/29/2016
Next Scheduled EDR Contact: 05/09/2016
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: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
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: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

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: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
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: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
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: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
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: 08/18/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 125

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
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: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
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: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

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: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIRS: Oregon Title V Facility Listing
A listing of Title V facility source and emissions information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-6459
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites Listing
A listing of coal ash disposal sites.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/10/2015
Date Made Active in Reports: 11/10/2015
Number of Days to Update: 61

Source: Department of Environmental Quality
Telephone: 541-298-7255
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities
A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 11/12/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 31

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information for hazardous waste facilities.

Date of Government Version: 11/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 59

Source: Department of Environmental Quality
Telephone: 541-633-2011
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
Financial assurance information for solid waste 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: 02/23/2016
Date Data Arrived at EDR: 02/25/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 19

Source: Department of Environmental Quality
Telephone: 503-229-5521
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

HSIS: Hazardous Substance Information Survey
Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/21/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 42

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

OR MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 06/16/2015
Date Made Active in Reports: 07/24/2015
Number of Days to Update: 38

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 02/23/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 02/10/2016
Date Made Active in Reports: 03/15/2016
Number of Days to Update: 34

Source: Department of Environmental Quality
Telephone: 503-229-5657
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

UIC: Underground Injection Control Program Database
DEQ's Underground Injection Control Program is authorized by the Environmental Protection Agency (EPA) to regulate all underground injection in Oregon to protect groundwater resources.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/28/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 35

Source: Department of Environmental Quality
Telephone: 503-229-5945
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Quarterly

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 Historic Gas 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 Historic Dry 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 HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS 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 Oregon.

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

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 Oregon.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

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 Oregon.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/27/2013
Number of Days to Update: 179

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: 11/02/2015
Date Data Arrived at EDR: 11/08/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 31

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Annually

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
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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: Child Care Listings
Source: Employment Department
Telephone: 503-947-1420

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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 Data
Source: Oregon Geospatial Enterprise Office
Telephone: 503-378-2166

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FAIRVIEW ELEMENTARY SCHOOL
225 MAIN STREET
FAIRVIEW, OR 97024

TARGET PROPERTY COORDINATES

Latitude (North):	45.539877 - 45° 32' 23.56''
Longitude (West):	122.435869 - 122° 26' 9.13''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	544043.9
UTM Y (Meters):	5042864.0
Elevation:	126 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5992265 CAMAS, WA
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 principal 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).

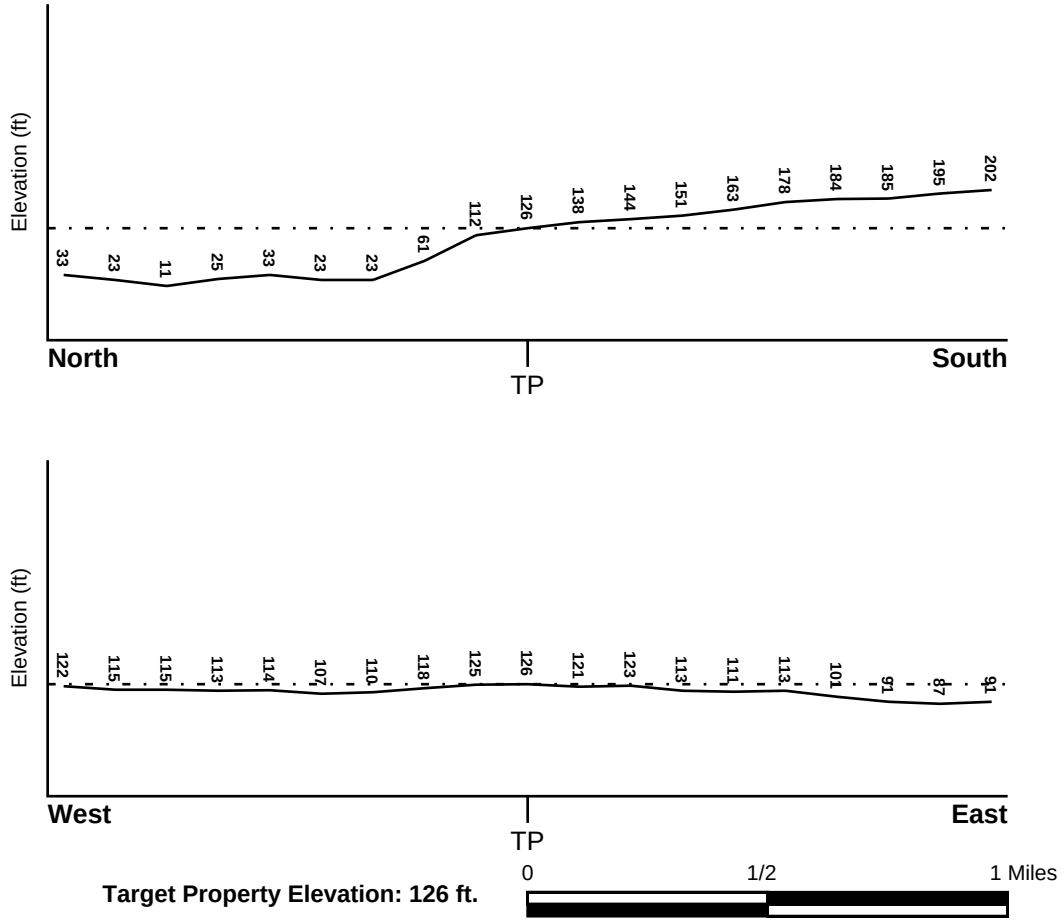
TOPOGRAPHIC INFORMATION

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 North

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

Target Property County	FEMA Flood Electronic Data
MULTNOMAH, OR	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 41051C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CAMAS	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

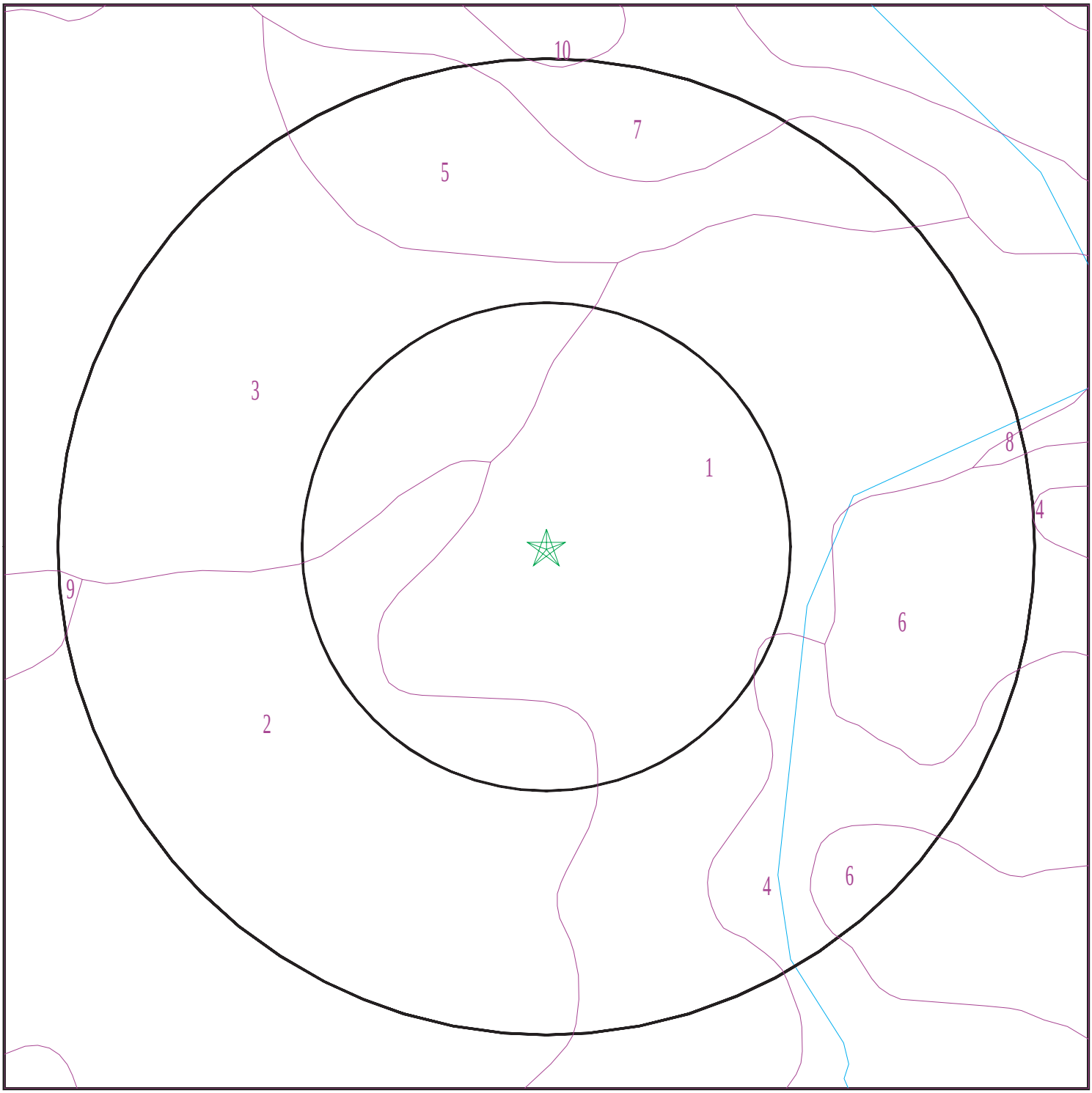
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

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 - 4560208.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Fairview Elementary School	CLIENT:	GeoDesign Inc.
ADDRESS:	225 Main Street Fairview OR 97024	CONTACT:	Steven Vandecoevering
LAT/LONG:	45.539877 / 122.435869	INQUIRY #:	4560208.2s
		DATE:	March 17, 2016 5:19 pm

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: Latourell

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: Moderate

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	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.1
2	16 inches	55 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.1
3	55 inches	66 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6.5 Min: 5.6

Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture: 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:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Latourell

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: Moderate

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	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	55 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.1
3	55 inches	66 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6.5 Min: 5.6

Soil Map ID: 4

Soil Component Name: Wollent

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

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 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	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	9 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 5

Soil Component Name: Quatama

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 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	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	14 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	33 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 6

Soil Component Name: Aloha

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 54 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	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	9 inches	48 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	48 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6

Soil Map ID: 7

Soil Component Name: Quafeno

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 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	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 6.1
2	16 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	35 inches	64 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
4	64 inches	75 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 8

Soil Component Name: Latourell

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: Moderate

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	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.1
2	16 inches	55 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	55 inches	66 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6.5 Min: 5.6

Soil Map ID: 9

Soil Component Name: Quatama

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 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	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	14 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	33 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 10

Soil Component Name: Rafton

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: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 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	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	9 inches	40 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	40 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6

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
A1	USGS40000993847	0 - 1/8 Mile ENE
A4	USGS40000993846	1/8 - 1/4 Mile East
B6	USGS40000993845	1/4 - 1/2 Mile East
C9	USGS40000993804	1/4 - 1/2 Mile SSW
E13	USGS40000993887	1/2 - 1 Mile North
F15	USGS40000993783	1/2 - 1 Mile SSE
18	USGS40000993763	1/2 - 1 Mile South
G19	USGS40000993822	1/2 - 1 Mile East
H21	USGS40000993903	1/2 - 1 Mile NNW
I25	USGS40000993906	1/2 - 1 Mile NNW
I28	USGS40000993909	1/2 - 1 Mile NNW
J31	USGS40000993791	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
27	OR4100904	1/2 - 1 Mile ESE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	ORW500000014263	0 - 1/8 Mile ENE
A3	ORW500000003684	0 - 1/8 Mile East
A5	ORW500000014262	1/8 - 1/4 Mile East
B7	ORW500000014741	1/4 - 1/2 Mile East
8	ORW500000003683	1/4 - 1/2 Mile East
C10	ORW500000014252	1/4 - 1/2 Mile SSW
D11	ORI500000044246	1/2 - 1 Mile WNW
D12	ORI500000044686	1/2 - 1 Mile WNW
E14	ORW500000003679	1/2 - 1 Mile North
F16	ORW500000003690	1/2 - 1 Mile SSE
17	ORI500000049946	1/2 - 1 Mile WSW
G20	ORW500000014260	1/2 - 1 Mile East
H22	ORW500000012618	1/2 - 1 Mile NNW
23	ORW500000007811	1/2 - 1 Mile North
I24	ORW500000012617	1/2 - 1 Mile NNW
I26	ORW500000012616	1/2 - 1 Mile NNW
29	ORI500000049955	1/2 - 1 Mile SW
J30	ORW500000014249	1/2 - 1 Mile ESE
32	ORI500000049951	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 4560208.2s

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location

SITE NAME: Fairview Elementary School ADDRESS: 225 Main Street Fairview OR 97024 LAT/LONG: 45.539877 / 122.435869	CLIENT: GeoDesign Inc. CONTACT: Steven Vandecoevering INQUIRY #: 4560208.2s DATE: March 17, 2016 5:19 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
ENE
0 - 1/8 Mile
Lower

FED USGS **USGS40000993847**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453225122255901		
Monloc name:	01N/03E-27CBB2		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5401195
Longitude:	-122.434258	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	120.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1956	Welldepth:	1060
Welldepth units:	ft	Wellholedepth:	1060
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-03-27	104.2		1988-04-18	101.8	
1987-03-17	102.4		1956-06-19	90	

A2
ENE
0 - 1/8 Mile
Lower

OR WELLS **ORW500000014263**

Fid:	14262	Objectid:	14569
Logid:	MULT 1363	Lstupdate:	04/19/2011
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453225122255901
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	120		
Latitude:	45.5401195002		
Longitude:	-122.434258		
Site id:	ORW500000014263		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A3
East
0 - 1/8 Mile
Lower

OR WELLS **ORW500000003684**

Fid:	3683	Objectid:	3699
Logid:	MULT 1368	Lstupdate:	01/01/1990
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	1000	Sourceorg:	OWRD
Sourceowrd:	USGS WILLGW	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	120		
Latitude:	45.5401174749		
Longitude:	-122.433702733		
Site id:	ORW500000003684		

A4
East
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000993846**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453225122255500		
Monloc name:	01N/03E-27CBB1	(DUPLICATE1)	
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5401195
Longitude:	-122.433147	Sourcemap scale:	Not Reported
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Troutdale Formation		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	360
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A5
East
1/8 - 1/4 Mile
Lower

OR WELLS **ORW500000014262**

Fid:	14261	Objectid:	14568
Logid:	MULT 6	Lstupdate:	04/19/2011
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	9999	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453225122255500
Welltag:	0		
Sownum:	0	Obswell:	Not Reported
Recwell:	Not Reported	Obsflagall:	Not Reported
Lsdelev:	0		
Latitude:	45.5401195002		
Longitude:	-122.433147		
Site id:	ORW500000014262		

B6
East
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000993845**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453225122254601		
Monloc name:	01N/03E-27CBAA		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5401195
Longitude:	-122.430647	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	110.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19771202	Welldepth:	390
Welldepth units:	ft	Wellholedepth:	486
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-03-27	89.3		1988-04-18	90.5	
1987-03-12	110.0		1977-12-02	95.5	

B7
East
1/4 - 1/2 Mile
Lower

OR WELLS **ORW500000014741**

Fid:	14740	Objectid:	15084
Logid:	MULT 3104	Lstupdate:	11/01/2011
Establby:	KARL WOZNIAK	Xysource:	TAX LOT MAP
Horizerr:	100	Sourceorg:	OWRD
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	112		
Latitude:	45.5405673616		
Longitude:	-122.429475135		
Site id:	ORW500000014741		

8
East **OR WELLS** **ORW500000003683**
1/4 - 1/2 Mile
Lower

Fid:	3682	Objectid:	3698
Logid:	MULT 1357	Lstupdate:	11/01/2011
Establby:	KARL WOZNIAK	Xysource:	APPL MAP & DOQ
Horizerr:	100	Sourceorg:	OWRD
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	N
Recwell:	9	Obsflagall:	ON
Lsdelev:	112		
Latitude:	45.5405949597		
Longitude:	-122.429266919		
Site id:	ORW500000003683		

C9
SSW **FED USGS** **USGS40000993804**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453204122262301		
Monloc name:	01N/03E-28DCDD		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5342863
Longitude:	-122.4409247	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	185.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19630627	Welldepth:	355
Welldepth units:	ft	Wellholedepth:	420
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-03-27	99.9		1988-04-18	100.7	
1987-03-12	95.2		1963-10-04	68	

C10
SSW
1/4 - 1/2 Mile
Higher

OR WELLS **ORW500000014252**

Fid:	14251	Objectid:	14556
Logid:	MULT 1369	Lstupdate:	04/19/2011
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453204122262301
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	185		
Latitude:	45.5342862502		
Longitude:	-122.4409247		
Site id:	ORW500000014252		

D11
WNW
1/2 - 1 Mile
Lower

OR WELLS **ORI500000044246**

Fid:	44245	Well inspe:	0
Physical l:	Not Reported	Inspection:	2007-09-04 00:00:00.000
Startcard :	183464	Wl county :	MULT
Wl nbr:	81196	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	FUDGE, BRAD		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported

Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	MONUMENT NOT SUFFICIENT; NOT FLUSH TO GRADE; DRAIN NOT SUFFICIENT; 1.5 FT FROM U		
Work new:	0	Work deepe:	0
Work conve:	0	Work alter:	1
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	74366	Bonded lic:	1592
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	900	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	28
Qtr40:	SE	Qtr160:	NW
Latitude d:	45.54264000	Longitude :	-122.44621000
Gps horizo:	17.00000000	Year const:	2007
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	Y	Previous i:	0
Inspected :	KRB	Inspecte00:	107906
Wm region:	NW		
Well tag a:	BOLTED TO LID		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	CMP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	W	Casing cap:	PT
Pictures t:	1	Street of :	20918 NE SANDY B
Street o00:	20918 NE SANDY BLVD, FAIRVIEW		
Last updt :	2007-09-04 15:11:49.483		
Last upd00:	byrdkr	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.54264		
Loongitude:	-122.44621		
Site id:	ORI500000044246		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D12
WNW
1/2 - 1 Mile
Lower

OR WELLS **ORI500000044686**

Fid:	44685	Well inspe:	0
Physical l:	Not Reported	Inspection:	2008-01-03 00:00:00.000
Startcard :	183464	Wl county :	MULT
Wl nbr:	81196	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	FUDGE, BRAD		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	NO CHANGE TO MONUMENT ELEVATION; DRAIN IN WELL APPEARS ADEQUATE		
Work new:	0	Work deepe:	0
Work conve:	0	Work alter:	1
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported

Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	74366	Bonded lic:	1592
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	900	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	28
Qtr40:	SE	Qtr160:	NW
Latitude d:	45.54264000	Longitude :	-122.44621000
Gps horizo:	17.00000000	Year const:	2007
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	Y	Previous i:	1
Inspected :	J J	Inspecte00:	113341
Wm region:	NW		
Well tag a:	BOLTED TO LID		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	CMP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	W	Casing cap:	PT
Pictures t:	1	Street of :	20918 NE SANDY B
Street o00:	20918 NE SANDY BLVD, FAIRVIEW		
Last updt :	2008-06-04 14:19:06.293		
Last upd00:	jefferjw	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.54264		
Loongitude:	-122.44621		
Site id:	ORI500000044686		

E13
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000993887**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453259122260801		
Monloc name:	01N/03E-21DDC		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5495638
Longitude:	-122.4367583	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19560525	Welldepth:	265
Welldepth units:	ft	Wellholedepth:	265
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

E14
North
1/2 - 1 Mile
Lower

OR WELLS **ORW500000003679**

Fid:	3678	Objectid:	3694
Logid:	MULT 1381	Lstupdate:	01/01/1990
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	1000	Sourceorg:	OWRD
Sourceowrd:	USGS WILLGW	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	10		
Latitude:	45.5495656468		
Longitude:	-122.436758446		
Site id:	ORW500000003679		

F15
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000993783**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453151122254301		
Monloc name:	01N/03E-34BBDD1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5306752
Longitude:	-122.4298135	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	176.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19560101	Welldepth:	405
Welldepth units:	ft	Wellholedepth:	405
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-03-31	131.5				
1988-04-04	129.5				
Note: The site was being pumped.					
1987-03-16	139.3		1956-05-01	103.0	

F16
SSE
1/2 - 1 Mile
Higher

OR WELLS **ORW500000003690**

Fid:	3689	Objectid:	3705
Logid:	MULT 1427	Lstupdate:	01/01/1990
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	1000	Sourceorg:	OWRD
Sourceowrd:	USGS WILLGW	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	176		
Latitude:	45.5306740418		
Longitude:	-122.429813167		
Site id:	ORW500000003690		

17
WSW
1/2 - 1 Mile
Higher

OR WELLS **ORI500000049946**

Fid:	49945	Well inspe:	0
Physical l:	Not Reported	Inspection:	2010-06-22 00:00:00.000
Startcard :	1009491	Wl county :	MULT
Wl nbr:	101965	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	0
Property o:	Not Reported	Inspecti00:	CMP
Special st:	0	Title:	WIN
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	FEIMUN, LUM		
Street:	2081	City:	FAIRV
State:	OR	Zip:	97024
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	1	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	0
Rough log :	0	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	0
Protective:	0	Well locke:	0
Consultant:	0	Water in v:	0
Seal test :	Not Reported	Samples ta:	0
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	0	Access por:	0
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	0	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported

Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	0	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	1	Work exist:	0
Work other:	Not Reported	Drill rota:	0
Drill ro00:	0	Drill cabl:	0
Drill ca00:	0	Drill reve:	0
Drill re00:	0	Drill auge:	0
Drill push:	0	Drill hand:	0
Drill holl:	0	Drill soni:	0
Drill othe:	ABAND	Use domest:	0
Use irriga:	0	Use commun:	0
Use indust:	0	Use livest:	0
Use dewate:	0	Use monito:	1
Use therma:	0	Use inject:	0
Use piezom:	0	Use observ:	0
Use recove:	0	Use other:	Not Reported
Bentonite :	0	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	Not Reported	Bonded lic:	10563
Unbonded l:	10607	Bonded dri:	FORD,
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1303	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	28
Qtr40:	NW	Qtr160:	SW
Latitude d:	45.53761800	Longitude :	-122.45199000
Gps horizo:	9.00000000	Year const:	Not Reported
Date const:	2010-	Date con00:	2010-
Deficienci:	U	Previous i:	0
Inspected :	DMP	Inspecte00:	108008
Wm region:	NW		
Well tag a:	Not Reported		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	Not Reported
Pictures t:	0	Street of :	2081 NE 205TH AV
Street o00:	2081 NE 205TH AVE FAIRVIEW, OR 97024		
Last updt :	2010-06-29 14:04:03.153		
Last upd00:	poedm	Rec creati:	2010-06-29 14:04:03.153
Rec crea00:	poedm		
Latitude:	45.537618		
Loongitude:	-122.45199		
Site id:	ORI500000049946		

18
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000993763**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453141122260201		
Monloc name:	01N/03E-33ADDA1		
Monloc type:	Well		
Monloc desc:	THIS WELL HAS 6 PIEZOMETER WELLS IN ONE HOLE		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5280364
Longitude:	-122.4351218	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	198.97
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1976	Welldepth:	1128
Welldepth units:	ft	Wellholedepth:	1128
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G19
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000993822**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453217122250401		
Monloc name:	01N/03E-27DACC1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5378973
Longitude:	-122.4189802	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	133.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19800328	Welldepth:	300
Welldepth units:	ft	Wellholedepth:	300
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-04-04	122.7		1988-05-11	99.3	
1980-04-08	98.0				

G20
East
1/2 - 1 Mile
Higher

OR WELLS **ORW500000014260**

Fid:	14259	Objectid:	14564
Logid:	MULT 2418	Lstupdate:	04/19/2011
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453217122250401
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	130		
Latitude:	45.5378972999		
Longitude:	-122.4189802		
Site id:	ORW500000014260		

H21
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000993903**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453306122262201		
Monloc name:	01N/03E-21DCAB		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5515082
Longitude:	-122.4406472	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	0
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19780926	Welldepth:	170
Welldepth units:	ft	Wellholedepth:	173
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H22
NNW
1/2 - 1 Mile
Lower

OR WELLS **ORW500000012618**

Fid:	12617	Objectid:	12850
Logid:	MULT 1295	Lstupdate:	06/02/2010
Establby:	KARL WOZNIAK	Xysource:	APPL & TAX LOT MAPS & DOQ
Horizerr:	20	Sourceorg:	OWRD
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	5		
Latitude:	45.5518022122		
Longitude:	-122.440936766		
Site id:	ORW500000012618		

23
North
1/2 - 1 Mile
Lower

OR WELLS **ORW500000007811**

Fid:	7810	Objectid:	7918
Logid:	MULT 66769	Lstupdate:	04/02/2013
Establby:	KARL WOZNIAK	Xysource:	FINAL PROOF MAP & DOQ
Horizerr:	50	Sourceorg:	OWRD
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	56157		
Sownum:	0	Obswell:	C
Recwell:	9	Obsflagall:	OC
Lsdelev:	0		
Latitude:	45.5527367876		
Longitude:	-122.433604258		
Site id:	ORW500000007811		

I24
NNW
1/2 - 1 Mile
Lower

OR WELLS **ORW500000012617**

Fid:	12616	Objectid:	12849
Logid:	MULT 1304	Lstupdate:	06/02/2010
Establby:	KARL WOZNIAK	Xysource:	1:24,000 MAP
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	N
Recwell:	9	Obsflagall:	ON
Lsdelev:	5		
Latitude:	45.5517073049		

Longitude: -122.444000284
Site id: ORW500000012617

I25
NNW **FED USGS** **USGS40000993906**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453307122263401		
Monloc name:	01N/03E-21DBCC1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.551786
Longitude:	-122.4439806	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	17.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19410101	Welldepth:	109
Welldepth units:	ft	Wellholedepth:	109
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 5

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-09-12	13.1		1988-04-06	9.1	
1987-03-28	6.4		1977-09-08	11.3	
1941-01-01	11.0				

I26
NNW **OR WELLS** **ORW500000012616**
1/2 - 1 Mile
Lower

Fid:	12615	Objectid:	12848
Logid:	MULT 1298	Lstupdate:	06/02/2010
Establby:	KARL WOZNIAK	Xysource:	1:24,000 MAP
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	20		
Latitude:	45.5519506947		

Longitude: -122.44407475
Site id: ORW500000012616

27
ESE
1/2 - 1 Mile
Higher

FRDS PWS **OR4100904**

Epa region:	10	State:	OR
Pwsid:	OR4100904		
Pwsname:	WOOD VILLAGE, CITY OF		
City served:	Not Reported	State served:	OR
Zip served:	Not Reported	Fips county:	41051
Status:	Active	Pop srvd:	3020
Pwssvcconn:	627	Source:	Groundwater
Pws type:	CWS	Owner:	Local_Govt
Contact:	JONES, RANDY		
Contactor gname:	JONES, RANDY		
Contact phone:	503-421-6184	Contact address1:	2055 NE 238TH DR
Contact address2:	Not Reported	Contact city:	WOOD VILLAGE
Contact state:	OR	Contact zip:	97060
Activity code:	A		

Facid:	18532		
Facname:	TP FOR WELL #1		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	other	Treatment process:	innovative

Facid:	22586		
Facname:	TP FOR WELL #4		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	other	Treatment process:	innovative

Facid:	450		
Facname:	TP FOR WELL #2		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	other	Treatment process:	innovative

Facid:	451		
Facname:	TP FOR WELL #3		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	other	Treatment process:	innovative

Location Information:

Name:	WOOD VILLAGE, CITY OF		
Pwstypcd:	CWS	Primsrccd:	GW
Popserved:	3020		
Add1:	2055 NE 238TH DR		
Add2:	Not Reported		
City:	WOOD VILLAGE	State:	OR
Zip:	97060	Phone:	503-421-6184
Cityserv:	Not Reported	Cntyserv:	Multnomah
Stateserv:	OR	Zipserv:	Not Reported

Enforcement Information:

Violation id:	75695	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	566095	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	413195	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	379596	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	355896	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3225511	Orig cd:	S
Enf fy:	2011	Enf act date:	10/26/2010
Enf act detail:	St Violation/Reminder Notice	Enf act cat:	Informal

Enforcement Information:

Violation id:	3225511	Orig cd:	S
Enf fy:	2011	Enf act date:	10/12/2010
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3215908	Orig cd:	S
Enf fy:	2008	Enf act date:	03/03/2008
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3215707	Orig cd:	S
Enf fy:	2007	Enf act date:	04/03/2007
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3215605	Orig cd:	S
Enf fy:	2006	Enf act date:	06/30/2006
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3215505	Orig cd:	S
Enf fy:	2006	Enf act date:	06/30/2006
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3215405	Orig cd:	S
Enf fy:	2006	Enf act date:	06/30/2006
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3215293	Orig cd:	S
Enf fy:	2007	Enf act date:	01/01/2007
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3215193	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	314594	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	27194	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	210296	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	15994	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	1383591	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	1067391	Orig cd:	S
Enf fy:	2001	Enf act date:	08/09/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Violations Information:

Violoation id:	3225511	Orig cd:	S
State:	OR	Viol fy:	2010
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	24		
Viol name:	Monitoring, Routine Minor (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported

State mcl:	Not Reported	Cmpbdt:	09/01/2010
Cmpedt:	09/30/2010		

Violations Information:

Violoation id:	3215908	Orig cd:	S
State:	OR	Viol fy:	2008
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	24		
Viol name:	Monitoring, Routine Minor (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	01/01/2008
Cmpedt:	01/31/2008		

Violations Information:

Violoation id:	3215707	Orig cd:	S
State:	OR	Viol fy:	2007
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	23		
Viol name:	Monitoring, Routine Major (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	02/01/2007
Cmpedt:	02/28/2007		

Violations Information:

Violoation id:	3215605	Orig cd:	S
State:	OR	Viol fy:	2005
Contamcd:	1040		
Contamnm:	Nitrate		
Viol code:	03		
Viol name:	Monitoring, Regular		
Rule code:	331		
Rule name:	Nitrates		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	01/01/2005
Cmpedt:	12/31/2005		

Violations Information:

Violoation id:	3215505	Orig cd:	S
State:	OR	Viol fy:	2005
Contamcd:	1040		
Contamnm:	Nitrate		
Viol code:	03		
Viol name:	Monitoring, Regular		
Rule code:	331		
Rule name:	Nitrates		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	01/01/2005
Cmpedt:	12/31/2005		

Violations Information:

Violoation id:	3215405	Orig cd:	S
State:	OR	Viol fy:	2005
Contamcd:	1040		
Contamnm:	Nitrate		
Viol code:	03		
Viol name:	Monitoring, Regular		
Rule code:	331		
Rule name:	Nitrates		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	01/01/2005
Cmpedt:	12/31/2005		

PWS ID: OR4100904
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: WOOD VILLAGE, CITY OF
2055 NE 238TH DRIVE
WOOD VILLAGE, OR 97060

Addressee / Facility: Not Reported

Facility Latitude: 45 32 03 Facility Longitude: 122 25 03
City Served: Not Reported
Treatment Class: Untreated Population: 2930

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID:	9403145	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	06/01/94	Vio. end Date:	06/30/94	Vio. Period:	001 Months
Num required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	MCL, Monthly (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	Not Reported				

Violation ID:	9400159	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	11/01/93	Vio. end Date:	11/30/93	Vio. Period:	001 Months
Num required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	MCL, Monthly (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	Not Reported				

Violation ID:	9400271	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	12/01/93	Vio. end Date:	12/31/93	Vio. Period:	001 Months
Num required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	MCL, Monthly (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	Not Reported				

Violation ID:	9404838	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	01/01/94	Vio. end Date:	06/30/94	Vio. Period:	006 Months
Num required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Initial Tap Sampling for Pb and Cu				
Contaminant:	LEAD & COPPER RULE				
Vio. Awareness Date:	Not Reported				

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	OR4100904
Pwsname:	WOOD VILLAGE, CITY OF		
Retpopsrvd:	2860	Pwstypecod:	C
Vioid:	3215405	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4100904
Pwsname:	WOOD VILLAGE, CITY OF		
Retpopsrvd:	2860	Pwstypecod:	C
Vioid:	3215505	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4100904
Pwsname:	WOOD VILLAGE, CITY OF		
Retpopsrvd:	2860	Pwstypecod:	C
Vioid:	3215605	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2005 0:00:00		
Complperen:	12/31/2005 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4100904
Pwsname:	WOOD VILLAGE, CITY OF		
Retpopsrvd:	2860	Pwstypecod:	C
Vioid:	3215707	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	2/1/2007 0:00:00		
Complperen:	2/28/2007 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4100904
Pwsname:	WOOD VILLAGE, CITY OF		
Retpopsrvd:	2860	Pwstypecod:	C
Vioid:	3215908	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Minor (TCR)		
Complperbe:	1/1/2008 0:00:00		
Complperen:	1/31/2008 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

ENFORCEMENT INFORMATION:

System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	3215405		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	3215405		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	3215505		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	3215505		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	3215605		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2005 0:00:00 - 12/31/2005 0:00:00		
Violation ID:	3215605		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1994-06-01 - 1994-06-30		
Violation ID:	9403145		
Enforcement Date:	1994-06-28	Enf. Action:	State Public Notif Received
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1994-01-01 - 1994-06-30		
Violation ID:	9404838		
Enforcement Date:	1994-09-12	Enf. Action:	State Compliance Achieved
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1994-01-01 - 2015-12-31		
Violation ID:	9404838		
Enforcement Date:	1994-09-12	Enf. Action:	State Compliance Achieved

ENFORCEMENT INFORMATION:

System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1994-12-01 - 1994-12-31		
Violation ID:	9500756		
Enforcement Date:	1994-12-12	Enf. Action:	State Public Notif Received
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-06-01 - 1995-06-30		
Violation ID:	9504131		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-08-01 - 1995-08-31		
Violation ID:	9505660		
Enforcement Date:	1995-08-31	Enf. Action:	State Public Notif Received
System Name:	WOOD VILLAGE, CITY OF		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-08-01 - 1995-08-31		
Violation ID:	9505660		
Enforcement Date:	1995-10-19	Enf. Action:	State Public Notif Requested

CONTACT INFORMATION:

Name:	WOOD VILLAGE, CITY OF	Population:	2860
Contact:	JONES, RANDY	Phone:	Not Reported
Address:	2055 NE 238TH DR		
Address 2:	WOOD VILLAGE OR, 97 503-6		

I28
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000993909**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453308122263401		
Monloc name:	01N/03E-21DBCC2		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5520637
Longitude:	-122.4439806	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	14.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19671017	Welldepth:	226
Welldepth units:	ft	Wellholedepth:	226
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

29
SW
1/2 - 1 Mile
Higher

OR WELLS **ORI500000049955**

Fid:	49954	Well inspe:	0
Physical l:	Not Reported	Inspection:	2010-06-16 00:00:00.000
Startcard :	202246	Wl county :	MULT
Wl nbr:	102418	Startcar00:	20224
Well tag n:	95775	No log:	0
Property o:	Not Reported	Inspecti00:	CMP
Special st:	0	Title:	WIN
Inspecti01:	ROC	Witnesses:	Not Reported
Name owner:	CITY OF FAIRVIEW		
Street:	PO BO	City:	FAIRV
State:	OR	Zip:	97024
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	1	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	0
Rough log :	0	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	1
Protective:	0	Well locke:	1
Consultant:	0	Water in v:	0
Seal test :	Not Reported	Samples ta:	0
Casing dia:	2.00	Csg above :	2.50
Csg gauge:	40.00	Borehole d:	6.00
Dedicated :	0	Access por:	0
Access p00:	Not Reported	Measuring :	0.00
Measurin00:	1	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	0.00
Tape missi:	0.00	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	0	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	0
Drill ro00:	0	Drill cabl:	0
Drill ca00:	0	Drill reve:	0
Drill re00:	0	Drill auge:	0
Drill push:	0	Drill hand:	0
Drill holl:	0	Drill soni:	0
Drill othe:	SONIC	Use domest:	0
Use irriga:	0	Use commun:	0
Use indust:	0	Use livest:	0
Use dewate:	0	Use monito:	1
Use therma:	0	Use inject:	0
Use piezom:	0	Use observ:	0

Use recove:	0	Use other:	Not Reported
Bentonite :	0	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	95775	Bonded lic:	10306
Unbonded l:	10574	Bonded dri:	J TRE
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	00402	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	33
Qtr40:	SE	Qtr160:	NW
Latitude d:	45.52812100	Longitude :	-122.44730600
Gps horizo:	5.00000000	Year const:	Not Reported
Date const:	2010-	Date con00:	2010-
Deficienci:	U	Previous i:	0
Inspected :	DMP	Inspecte00:	108008
Wm region:	NW		
Well tag a:	quick tie		
Well tag01:	DRL	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	JPG
Pictures t:	0	Street of :	20620 NE GLISAN
Street o00:	20620 NE GLISAN ST., FAIRVIEW		
Last updt :	2010-06-30 09:18:23.047		
Last upd00:	poedm	Rec creati:	2010-06-30 09:03:18.233
Rec crea00:	poedm		
Latitude:	45.528121		
Loongitude:	-122.447306		
Site id:	ORI500000049955		

J30
ESE
1/2 - 1 Mile
Higher

OR WELLS **ORW500000014249**

Fid:	14248	Objectid:	14553
Logid:	MULT 1426	Lstupdate:	04/19/2011
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453156122250301
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	168		
Latitude:	45.5320640997		
Longitude:	-122.418702301		
Site id:	ORW500000014249		

J31
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000993791**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453156122250301		
Monloc name:	01N/03E-34AAB		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5320641
Longitude:	-122.4187023	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	170.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19420101	Welldepth:	360
Welldepth units:	ft	Wellholedepth:	360
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-04-04	74.5		1987-03-03	93.0	
1942-11-03	65.0				

32
West
1/2 - 1 Mile
Higher

OR WELLS **ORI500000049951**

Fid:	49950	Well inspe:	0
Physical l:	Not Reported	Inspection:	2010-06-22 00:00:00.000
Startcard :	1009499	Wl county :	MULT
Wl nbr:	101949	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	0
Property o:	Not Reported	Inspecti00:	CMP
Special st:	0	Title:	WIN
Inspecti01:	ROC	Witnesses:	Not Reported
Name owner:	ODOT		
Street:	355 C	City:	SALEM
State:	OR	Zip:	97301
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	0	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	0
Rough log :	0	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	0
Protective:	0	Well locke:	0
Consultant:	0	Water in v:	0
Seal test :	Not Reported	Samples ta:	0

Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	0	Access por:	0
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	0	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	0	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	1	Work exist:	0
Work other:	Not Reported	Drill rota:	0
Drill ro00:	0	Drill cabl:	0
Drill ca00:	0	Drill reve:	0
Drill re00:	0	Drill auge:	0
Drill push:	0	Drill hand:	0
Drill holl:	0	Drill soni:	0
Drill othe:	ABAND	Use domest:	0
Use irriga:	0	Use commun:	0
Use indust:	0	Use livest:	0
Use dewate:	0	Use monito:	0
Use therma:	0	Use inject:	0
Use piezom:	0	Use observ:	0
Use recove:	0	Use other:	Not Reported
Bentonite :	1	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	43843	Bonded lic:	10563
Unbonded l:	10607	Bonded dri:	FORD,
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	row	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	29
Qtr40:	NE	Qtr160:	SE
Latitude d:	45.54004200	Longitude :	-122.45642900
Gps horizo:	5.00000000	Year const:	Not Reported
Date const:	2010-	Date con00:	2010-
Deficienci:	U	Previous i:	0
Inspected :	DMP	Inspecte00:	108008
Wm region:	NW		
Well tag a:	Not Reported		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	Not Reported
Pictures t:	0	Street of :	NORTH OF I-84 AL
Street o00:	NORTH OF I-84 ALONGSIDE NE 201ST AVE BIKEPATH FAI		
Last updt :	2010-06-29 15:31:06.340		
Last upd00:	poedm	Rec creati:	2010-06-29 15:31:06.340
Rec crea00:	poedm		
Latitude:	45.540042		
Loongitude:	-122.456429		
Site id:	ORI500000049951		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for MULTNOMAH 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 MULTNOMAH COUNTY, OR

Number of sites tested: 33

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.530 pCi/L	91%	9%	0%
Basement	2.630 pCi/L	57%	43%	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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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 Data
Source: Oregon Geospatial Enterprise Office
Telephone: 503-378-2166

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

Water Well Data
Source: Department of Water Resources
Telephone: 503-986-0843

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations
Source: Department of Geology and Mineral Industries
Telephone: 971-673-1540
A listing of oil and gas well locations in the state.

RADON

State Database: OR Radon
Source: Oregon Health Services
Telephone: 503-731-4272
Radon Levels in Orgeon

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

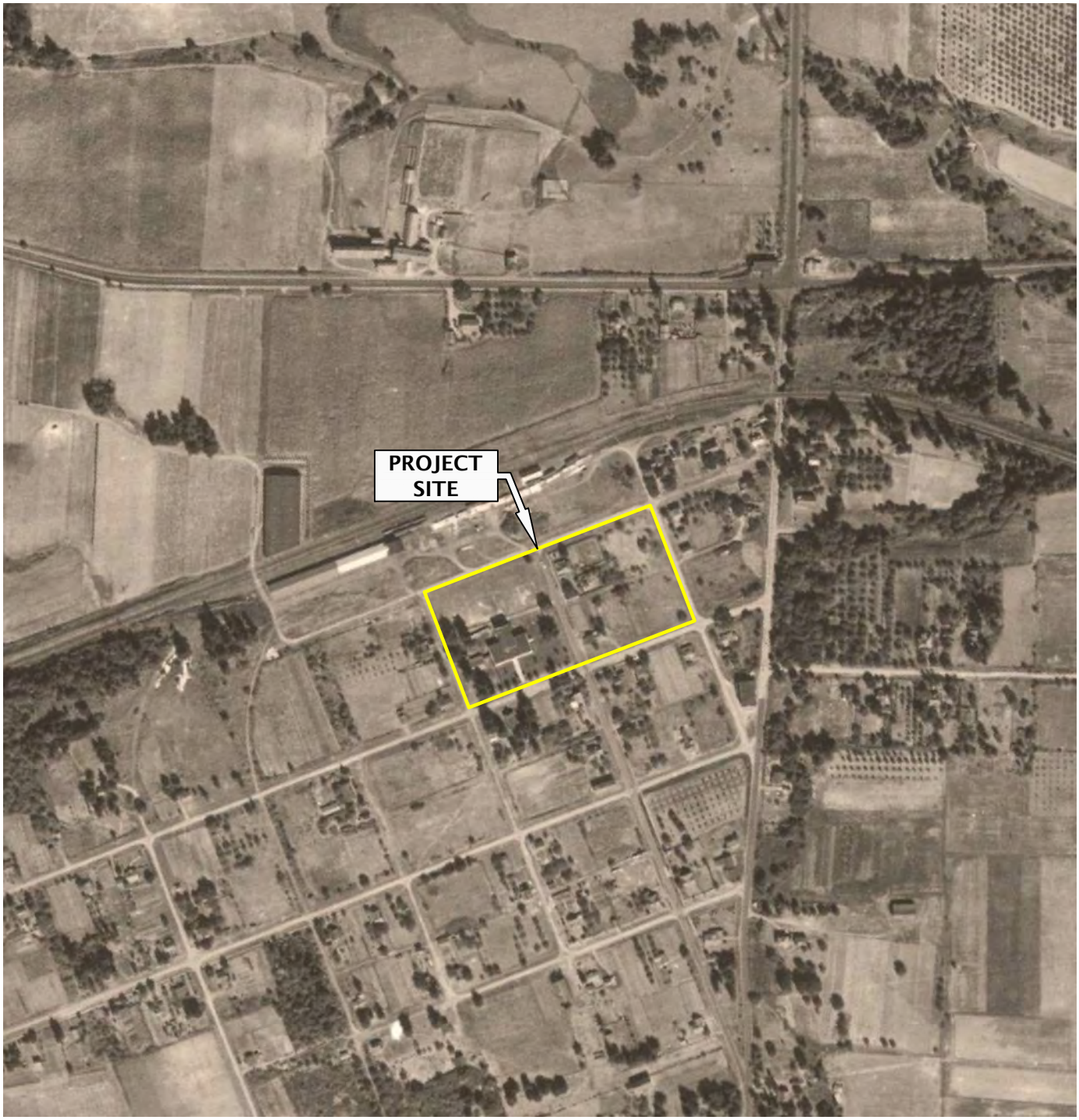
Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

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

APPENDIX C



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
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Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSD-2-02

APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
1935

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

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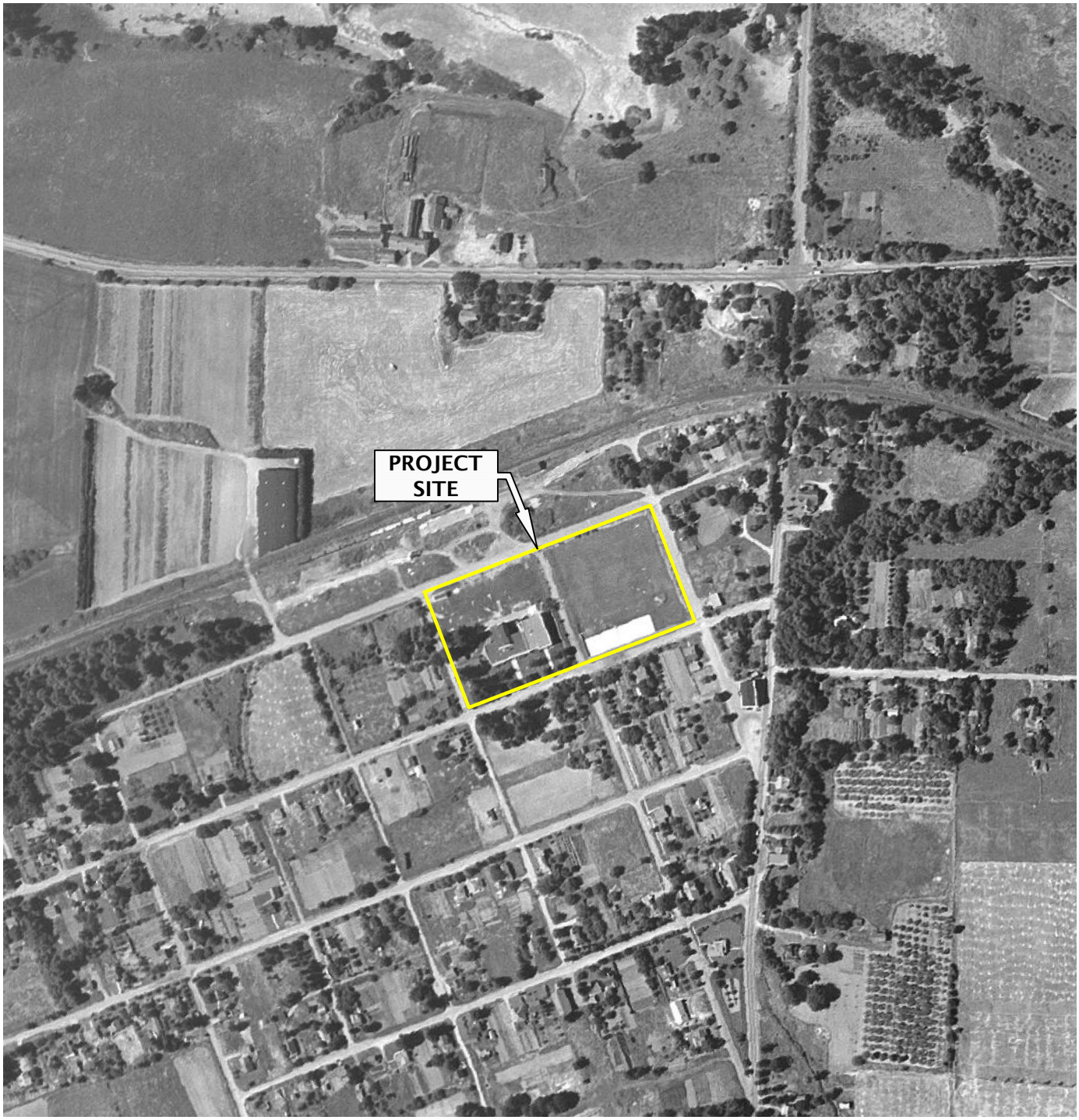

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HISTORICAL AERIAL PHOTOGRAPH
1948

FAIRVIEW ELEMENTARY SCHOOL
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GEODESIGN INC 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSD-2-02	**HISTORICAL AERIAL PHOTOGRAPH** **1955**
	APRIL 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 10:07:08 AM
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HISTORICAL AERIAL PHOTOGRAPH
1963

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

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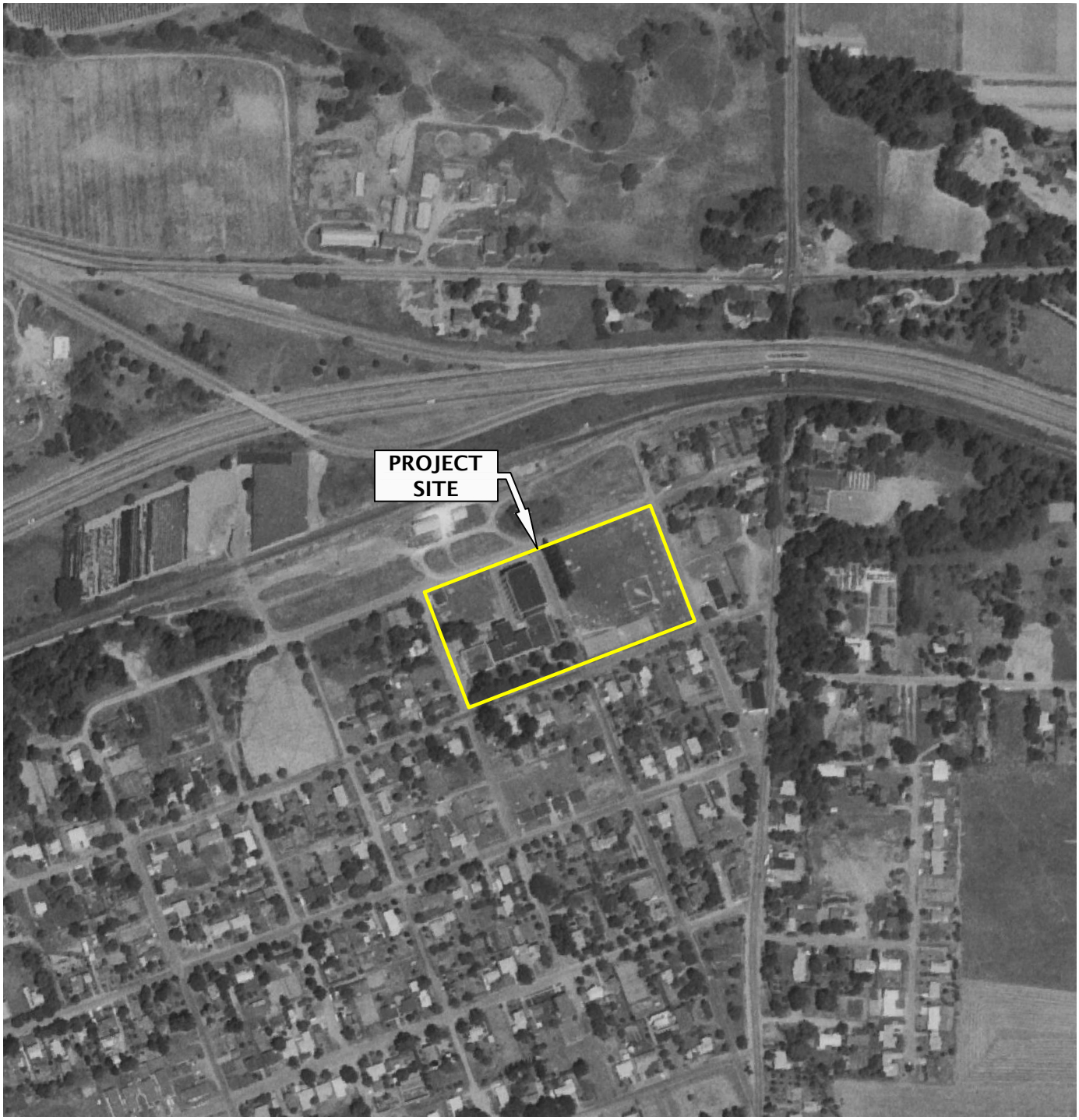

PROJECT SITE BOUNDARIES ARE APPROXIMATE.

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REYNOLDSD-2-02	**HISTORICAL AERIAL PHOTOGRAPH 1970**
APRIL 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 9:58:11 AM
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HISTORICAL AERIAL PHOTOGRAPH
1981

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

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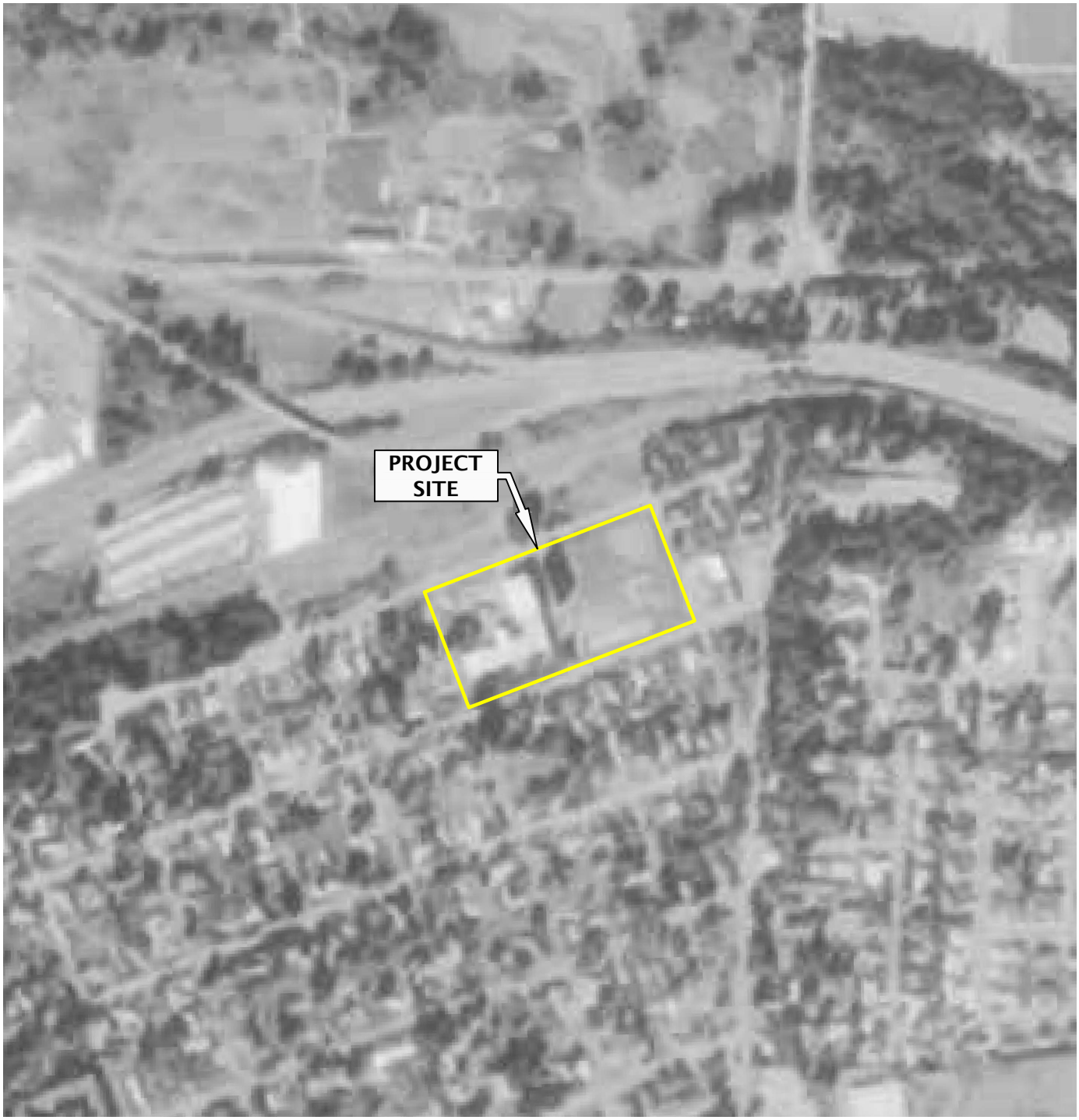

PROJECT SITE BOUNDARIES ARE APPROXIMATE.

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HISTORICAL AERIAL PHOTOGRAPH
1990

FAIRVIEW ELEMENTARY SCHOOL
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HISTORICAL AERIAL PHOTOGRAPH
2001

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HISTORICAL AERIAL PHOTOGRAPH
2009

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

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REYNOLDSD-2-02

APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
2012

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

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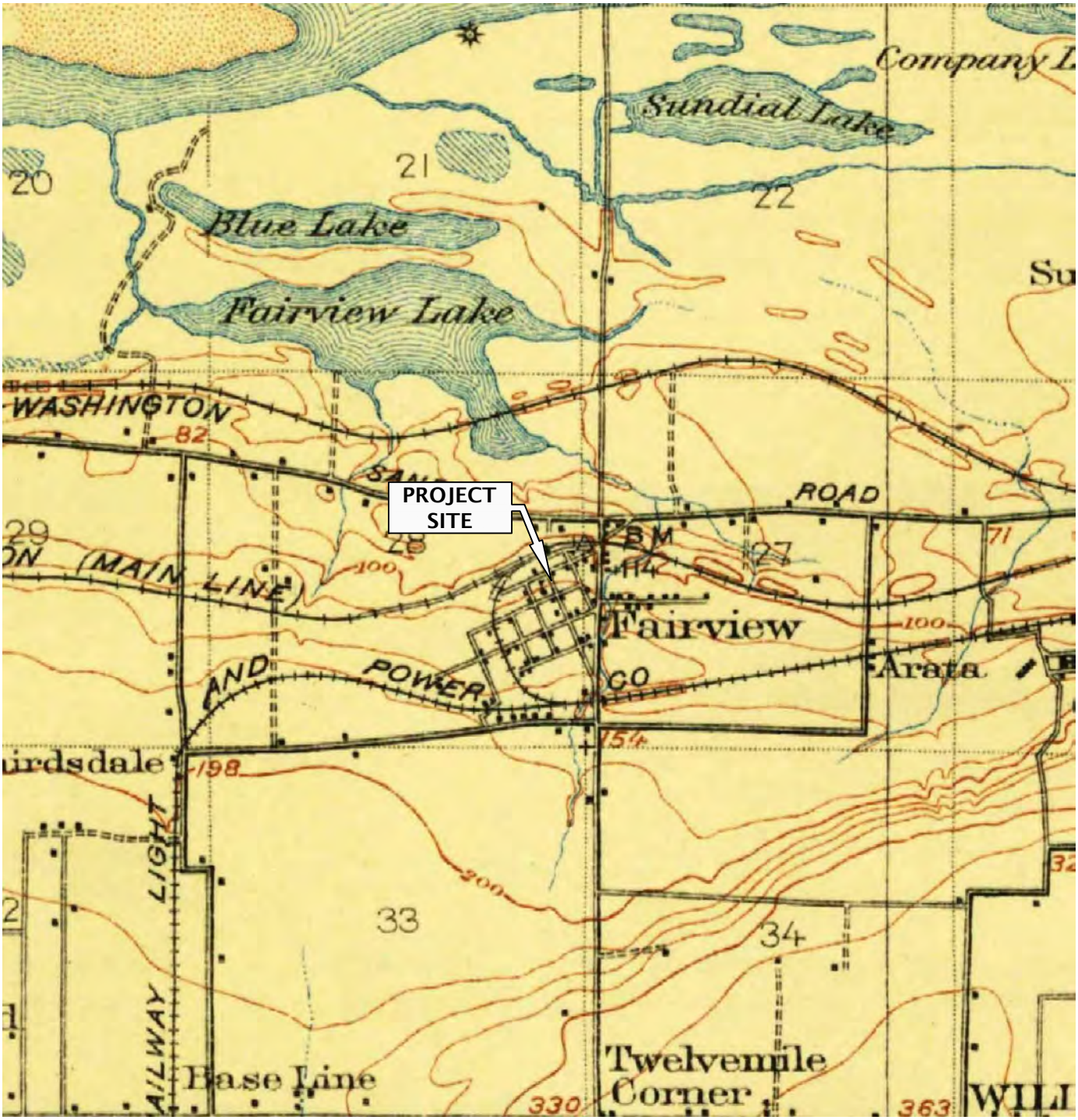

PROJECT SITE LOCATION IS APPROXIMATE.

N

GeoDesign Inc 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSD-2-02	**HISTORICAL TOPOGRAPHIC MAP 1918**
	APRIL 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 9:58:34 AM
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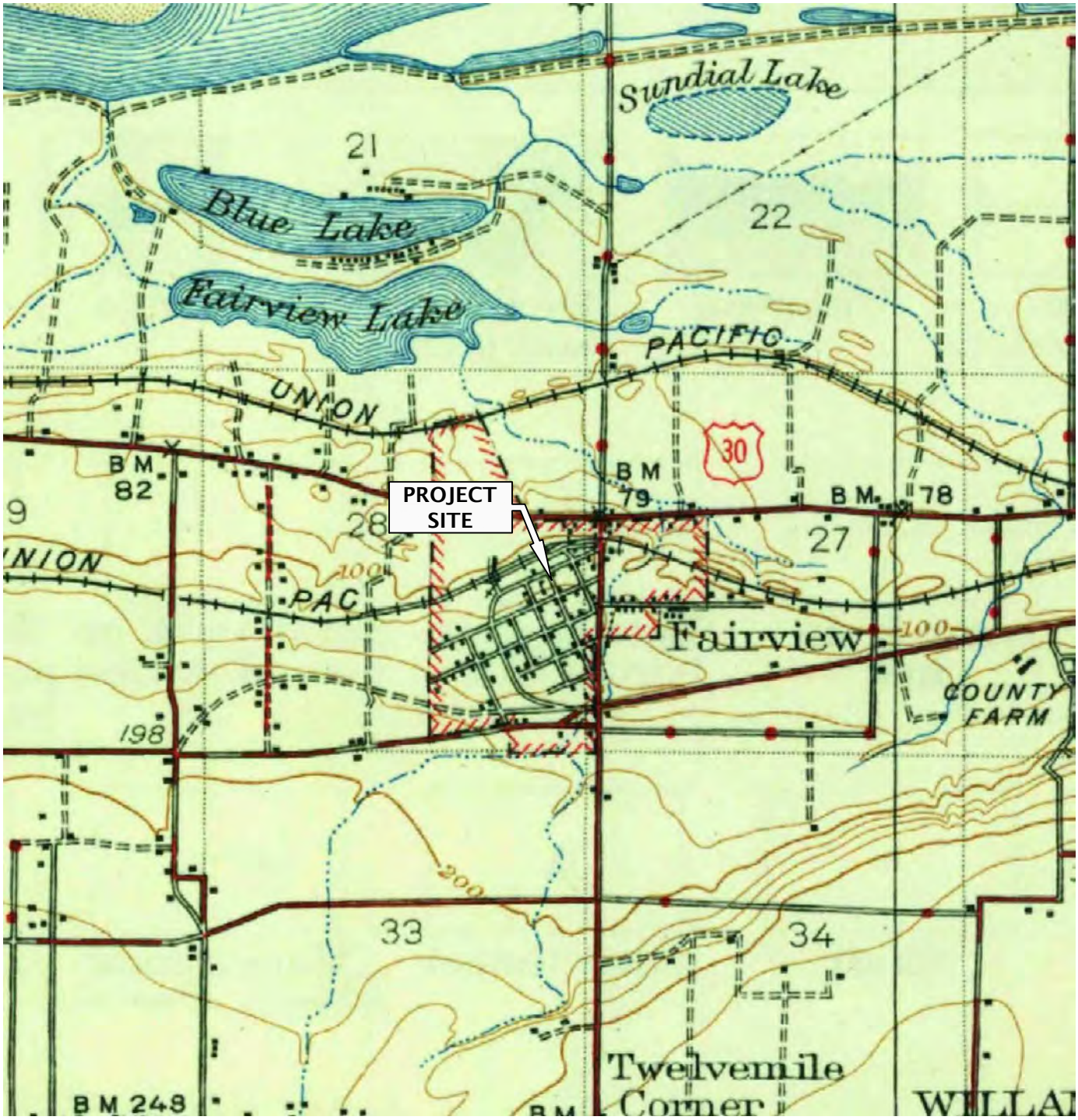

PROJECT SITE LOCATION IS APPROXIMATE.

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Portland OR 97224
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REYNOLDSD-2-02

APRIL 2016

HISTORICAL TOPOGRAPHIC MAP
1942

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 9:58:35 AM
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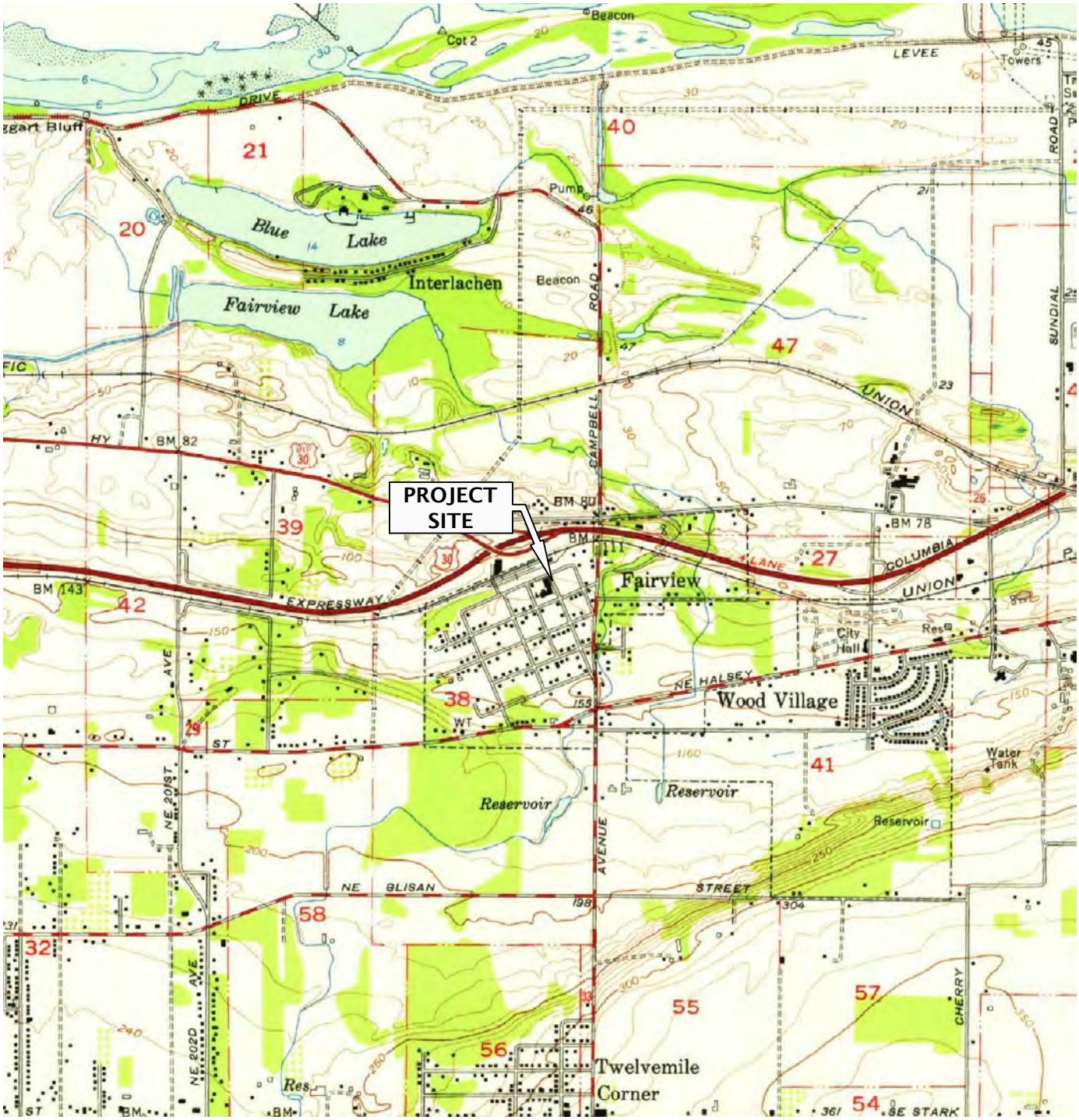

PROJECT SITE LOCATION IS APPROXIMATE.

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APRIL 2016

HISTORICAL TOPOGRAPHIC MAP
1954

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 9:58:35 AM
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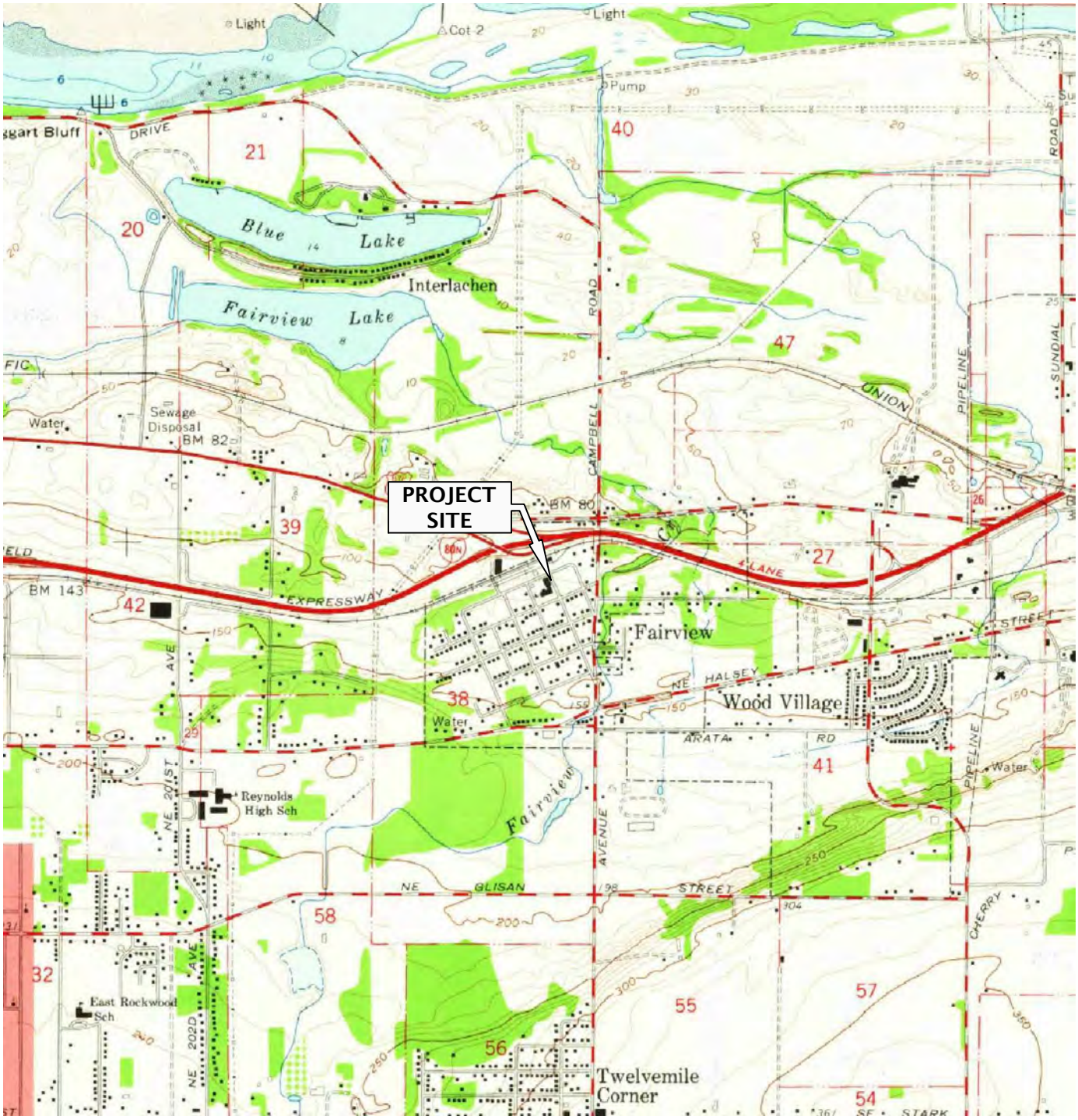


PROJECT SITE LOCATION IS APPROXIMATE.

N

GeoDesign Inc
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

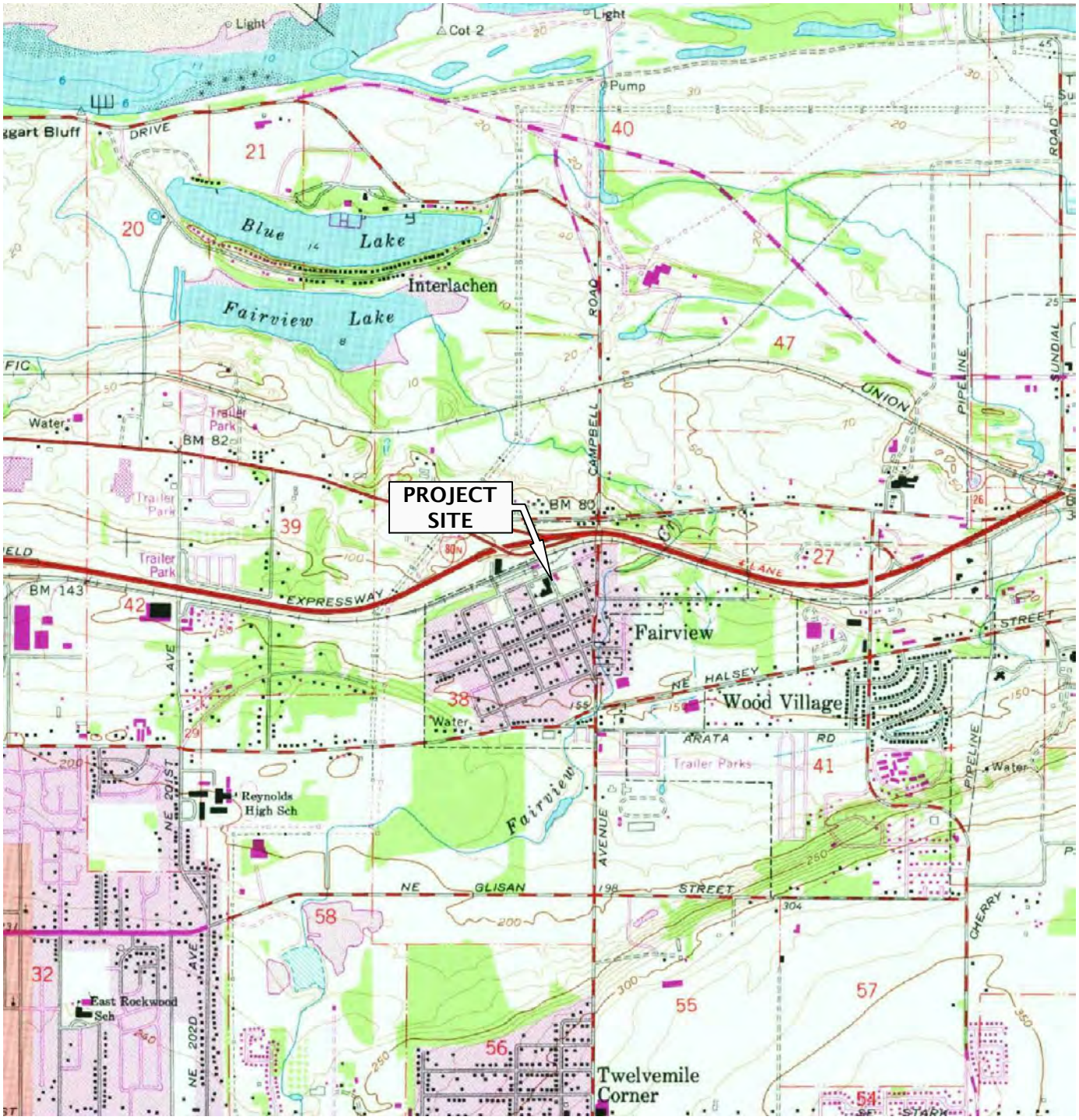
REYNOLDSD-2-02

APRIL 2016

HISTORICAL TOPOGRAPHIC MAP 1961

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 9:58:36 AM
File Name: J:\M-R\ReynoldsSD\ReynoldsSD-2\ReynoldsSD-2-02\Figures\CAD\ReynoldsSD-2-02-HT01.dwg | Layout: 1961



PROJECT SITE LOCATION IS APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

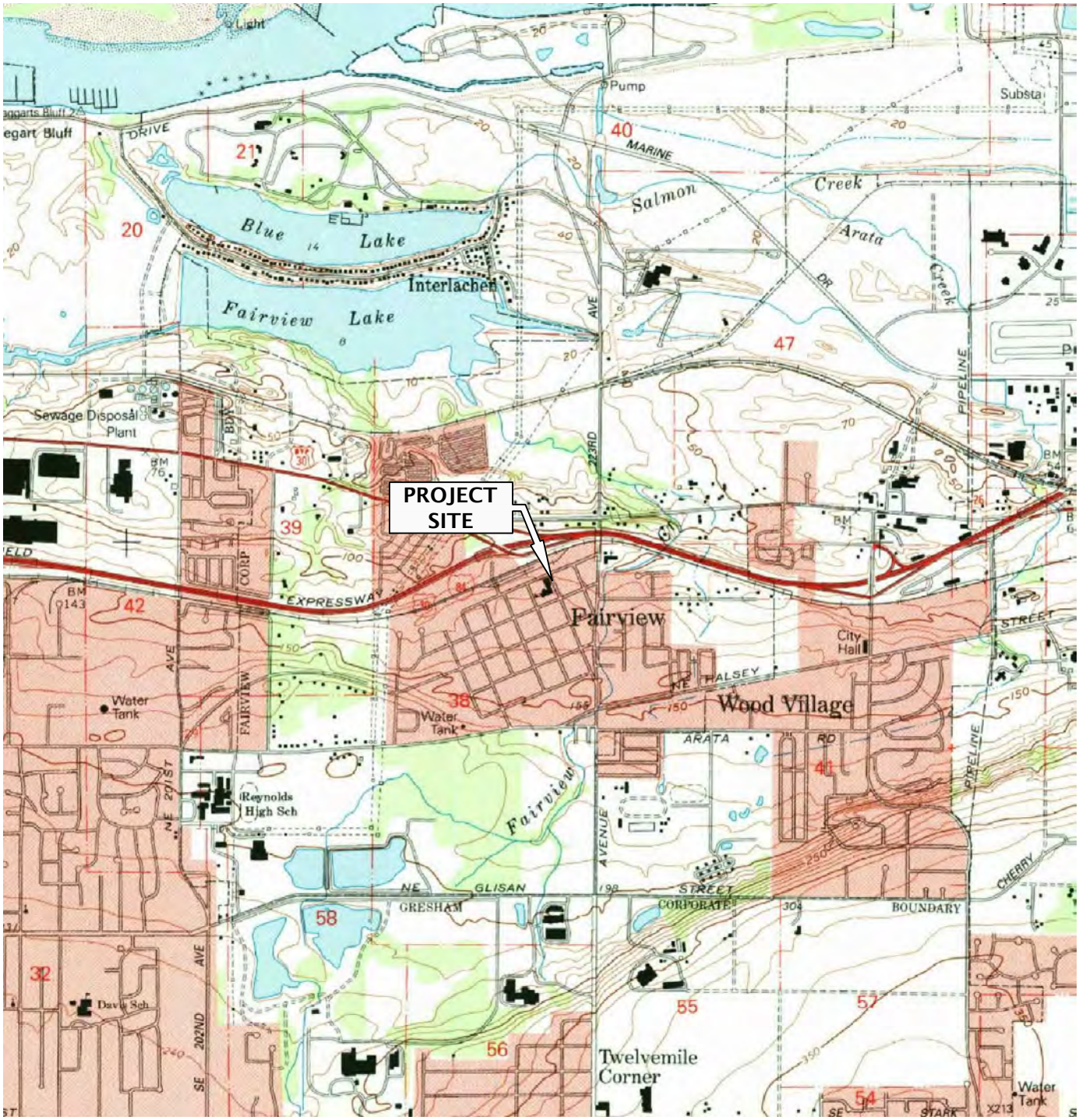
REYNOLDSD-2-02

APRIL 2016

HISTORICAL TOPOGRAPHIC MAP
1975

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 9:58:36 AM
File Name: J:\M-R\ReynoldsSD\ReynoldsSD-2\ReynoldsSD-2-02\Figures\CAD\ReynoldsSD-2-02-HT01.dwg | Layout: 1975



PROJECT SITE LOCATION IS APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSD-2-02	**HISTORICAL TOPOGRAPHIC MAP 1996**
APRIL 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 9:58:37 AM
File Name: J:\M-R\ReynoldsSD\ReynoldsSD-2\ReynoldsSD-2-02\Figures\CAD\ReynoldsSD-2-02-HT01.dwg | Layout: 1996

PROJECT SITE LOCATION IS APPROXIMATE.

N

GEODESIGN INC 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSD-2-02	**HISTORICAL TOPOGRAPHIC MAP 2013**
	APRIL 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR

Printed By: mmiller | Print Date: 4/6/2016 9:58:37 AM
File Name: J:\M-R\ReynoldsSD\ReynoldsSD-2\ReynoldsSD-2-02\Figures\CAD\ReynoldsSD-2-02-HT01.dwg | Layout: 2013

Fairview Elementary School
225 Main Street
Fairview, OR 97024

Inquiry Number: 4560208.5
March 09, 2016

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

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

EXECUTIVE SUMMARY

DESCRIPTION

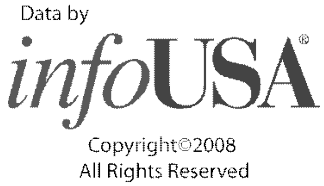
Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1924 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR is licensed to reproduce certain City Directory works. Reproduction of City Directories without permission of the publisher may be a violation of copyright.



RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	X	X	X	-
2008	Cole Information Services	X	X	X	-
2003	Cole Information Services	X	X	X	-
1998	Cole Information Services	-	-	-	-
1993	Cole Information Services	-	-	-	-
1988	Cole Information Services	-	-	-	-
1985	R. L. Polk and Co. Publishers	-	X	X	X
1981	R.L. Polk Co. Publishers	-	-	-	-
1980	R.L. Polk Co. Publishers	-	X	X	X
1977	R.L. Polk Co. Publishers	-	X	X	X
1975	R. L. Polk and Co. Publishers	-	-	-	-
1970	R.L.Polk Co.	-	X	X	X
1967	R.L.Polk Co.	-	X	X	X
1965	R.L.Polk Co.	-	X	X	X
1960	R. L. Polk Co. Publishers	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1955	R. L. Polk Co. Publishers	-	-	-	-
1950	R. L. Polk Co. Publisher	-	-	-	-
1946	The Pacific Telephone and Telegraph Company	-	-	-	-
1940	R.L. Polk Co., Inc.	-	-	-	-
1935	R.L. Polk Co., Inc.	-	-	-	-
1930	R.L. Polk Co., Inc.	X	X	X	X
1924	R.L. Polk Co., Inc.	X	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

225 Main Street
Fairview, OR 97024

FINDINGS DETAIL

Target Property research detail.

MAIN

225 MAIN

Year	*Uses*	*Source*	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A34

MAIN ST

225 MAIN ST

Year	*Uses*	*Source*
2013	FAIRVIEW ELEMENTARY	Cole Information Services
	LOCKSMITH AUTO LOCKOUT	Cole Information Services
2008	FAIRVIEW ELEMENTARY SCHOOL	Cole Information Services
	REYNOLDS SCHOOL DISTRICT 7	Cole Information Services
2003	FAIRVIEW ELEMENTARY SCHOOL	Cole Information Services
1924	Goldzier Julius	R.L. Polk Co., Inc.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

1 GLISAN

21 1 GLISAN

Year	Uses	Source	
1924	PIERCE Edwin E auto springnmkr	R.L. Polk Co., Inc.	

1 MORRISON

39 1 MORRISON

Year	Uses	Source	
1924	Barette IEnmma E tchr Irvington sch	R.L. Polk Co., Inc.	

1ST

7 1ST

Year	Uses	Source	
1930	Stubrud O H roofer	R.L. Polk Co., Inc.	Image pg. A40
	Rice Dorman O signs	R.L. Polk Co., Inc.	Image pg. A40
1924	CLARK Frank Florence lab	R.L. Polk Co., Inc.	
	Pres Marion Phillips Sec Treas Advertising Signs Posters and Display Cards	R.L. Polk Co., Inc.	
	NEW Market Block	R.L. Polk Co., Inc.	
	COMMERCIAL WINDOW DECORATING CO W D Miller Window Display Service	R.L. Polk Co., Inc.	

9 1ST

Year	Uses	Source	
1930	Armstrong Mfg Co store room	R.L. Polk Co., Inc.	Image pg. A42

11 1ST

Year	Uses	Source	
1930	Portland Coffee Co	R.L. Polk Co., Inc.	Image pg. A36
1924	PORTLAND Coffee Co F A Gaddis	R.L. Polk Co., Inc.	

FINDINGS

18 1ST

Year	Uses	Source	
1924	SANG WOO CHINESE MEDICINE CO Sang Woo Chinese Medicines Herbs and Tea	R.L. Polk Co., Inc.	

30 1ST

Year	Uses	Source	
1924	HARBTMAN Pearl Mrs maid	R.L. Polk Co., Inc.	

31 1ST

Year	Uses	Source	
1930	California Ink Co Inc	R.L. Polk Co., Inc.	Image pg. A38
1924	CALIFORNIA Ink Co W H Brandes mgr	R.L. Polk Co., Inc.	

35 1ST

Year	Uses	Source	
1930	Poppleton R R Inc elec machy	R.L. Polk Co., Inc.	Image pg. A38
1924	Poppleton Ralph R Irene I elec machy	R.L. Polk Co., Inc.	

40 1ST

Year	Uses	Source	
1930	Helt & ODonnell elec machy	R.L. Polk Co., Inc.	Image pg. A38
	1ST FROM Contd	R.L. Polk Co., Inc.	Image pg. A39
1924	SPENCER M Donald Delta W agt Kewanee Water Systemsand Pumping Machy	R.L. Polk Co., Inc.	
	KEWANEE WATER & ELECTRIC LIGHT SYSTEMS M D Spencer Agent	R.L. Polk Co., Inc.	
	DUNCAN Harvey C driver	R.L. Polk Co., Inc.	
	WI HEIMX RUDIE TRANSFER COD Rudolph Wilhelm Commercial Preight and ILong Distance Hauling	R.L. Polk Co., Inc.	

41 1ST

Year	Uses	Source	
1930	General Rubber & Supply Co	R.L. Polk Co., Inc.	Image pg. A39
1924	GENMERAL Rubber & Supply Co Geo Harris pres J P Carney sec treas	R.L. Polk Co., Inc.	

42 1ST

Year	Uses	Source	
1924	SPCo Frank M barber	R.L. Polk Co., Inc.	
	SMITH Jno R barber	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	BLACK Stell & Wire Co R H Keith mgr	R.L. Polk Co., Inc.	

43 1ST

Year	Uses	Source	
1930	General Rubber & Supply Co	R.L. Polk Co., Inc.	Image pg. A39
	Glisan Block	R.L. Polk Co., Inc.	Image pg. A39
	Price Chas R	R.L. Polk Co., Inc.	Image pg. A39
1924	Cardwell Chas H florist Multnomah Hotel	R.L. Polk Co., Inc.	

44 1ST

Year	Uses	Source	
1924	PACIFIC Machinery & Tool Steel Co 0 J Ulrich pres G C Ulrich v pres treas C M Rogers sec	R.L. Polk Co., Inc.	

45 1ST

Year	Uses	Source	
1930	Elkerton Geo H cbtmkr	R.L. Polk Co., Inc.	Image pg. A39

46 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A39

47 1ST

Year	Uses	Source	
1930	Portland Tinware Mfg Co	R.L. Polk Co., Inc.	Image pg. A39
1924	MARTIN Frank J Addie R tinner	R.L. Polk Co., Inc.	
	Collicker Adolph tinner	R.L. Polk Co., Inc.	

48 1ST

Year	Uses	Source	
1930	Davis B E Electric Co Inc elec machy	R.L. Polk Co., Inc.	Image pg. A39
1924	COMPANY Steel & Machinery Co Inc J H Gallagher pres A E Johnson v pres treas 0 B Helt sec	R.L. Polk Co., Inc.	
	Corvallis Saad & Gravel Co J A Gallagher Corvallis pres J H Gallagher v prestreas A E Johnson sec	R.L. Polk Co., Inc.	

49 1ST

Year	Uses	Source	
1930	Manning Packing & Supply Co	R.L. Polk Co., Inc.	Image pg. A39
	Lai Jack Hin	R.L. Polk Co., Inc.	Image pg. A39

FINDINGS

Year	Uses	Source	
1930	Bartells E J Co brick	R.L. Polk Co., Inc.	Image pg. A39
1924	MANNING Packing Co L H Manning mgr	R.L. Polk Co., Inc.	
	MOLONEY BELTING CO INC Josie I Bancroft Mgr Leather Belting and Mill Supplies	R.L. Polk Co., Inc.	

51 1ST

Year	Uses	Source	
1930	Huston Elwood B mill and marine equip	R.L. Polk Co., Inc.	Image pg. A39
	Pacific States Rubber Co	R.L. Polk Co., Inc.	Image pg. A39
1924	PACIFIC States Rubber Co E B Huston pres F J Newman v pres	R.L. Polk Co., Inc.	

52 1ST

Year	Uses	Source
1924	POST SPECIAL DELIVERY CO Harry E Cowgill Jr Mgr Piano and Furniture Moving Freight and Baggage Transferred	R.L. Polk Co., Inc.

53 1ST

Year	Uses	Source	
1930	Day Chas H Co mdse handling equipment	R.L. Polk Co., Inc.	Image pg. A39
	Signode Steel Strapping Co	R.L. Polk Co., Inc.	Image pg. A39
1924	Peerless Belt Repair Factory G W Welshhons	R.L. Polk Co., Inc.	

54 1ST

Year	Uses	Source	
1930	Hayes & Brchm whol gro	R.L. Polk Co., Inc.	Image pg. A39
1924	Tuley Clarence M Josephine mfrs agt	R.L. Polk Co., Inc.	
	LAMB Machine Co WV J Brett rep logging equip	R.L. Polk Co., Inc.	
	Cowgill Henry E machy	R.L. Polk Co., Inc.	
	Brett Wm J Alice M logging equip	R.L. Polk Co., Inc.	

55 1ST

Year	Uses	Source	
1930	Robinson J C Co dairy machy	R.L. Polk Co., Inc.	Image pg. A39
1924	ROBINSON J C Co J C Robinson dairy machy	R.L. Polk Co., Inc.	

FINDINGS

60 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A39

61 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A39
1924	MARTIN J E Co G C Hayner pres mgr E D Hayner sec machy	R.L. Polk Co., Inc.	

62 1ST

Year	Uses	Source	
1930	Portland Machinery Co	R.L. Polk Co., Inc.	Image pg. A39

63 1ST

Year	Uses	Source	
1930	Wallace J D & Co machy	R.L. Polk Co., Inc.	Image pg. A39
	Madsen Edwin C mfrs agt	R.L. Polk Co., Inc.	Image pg. A39
1924	Dobb Ernest M slsn Delco Light Products	R.L. Polk Co., Inc.	
	DELCO LIGHT PRODUCTS Willis Xc Cl Lrg Dealer lLighting Plants Pumps and Electric Refrigerators for Homes	R.L. Polk Co., Inc.	

65 1ST

Year	Uses	Source	
1930	Marwood Co elec supp	R.L. Polk Co., Inc.	Image pg. A39
	Woodard Martin Co	R.L. Polk Co., Inc.	Image pg. A39
1924	Heinonen Hannes slsn Jno Wyeth&Bro	R.L. Polk Co., Inc.	

66 1ST

Year	Uses	Source	
1930	Portland Machinery Co	R.L. Polk Co., Inc.	Image pg. A39
	Martin Wm A mfrs agt	R.L. Polk Co., Inc.	Image pg. A39
	Holly Press	R.L. Polk Co., Inc.	Image pg. A39
	Mc Kenney W F Co railroad and industrial supp	R.L. Polk Co., Inc.	Image pg. A39

67 1ST

Year	Uses	Source	
1930	Stearns Conveyor Co machy	R.L. Polk Co., Inc.	Image pg. A39
	Chain Belt Co machy	R.L. Polk Co., Inc.	Image pg. A39
1924	CHAIN BELT CO A C Sullivan Northwest Mgr Rex Chains and Conveyors	R.L. Polk Co., Inc.	

FINDINGS

68 1ST

Year	Uses	Source	
1930	Wire Rope Mfg & Equipment Co	R.L. Polk Co., Inc.	Image pg. A39
	West Side Pattern Works	R.L. Polk Co., Inc.	Image pg. A39
	Puget Sound Machy Dept	R.L. Polk Co., Inc.	Image pg. A39
1924	SHARP H W Co H W Sharp mill supplies	R.L. Polk Co., Inc.	

69 1ST

Year	Uses	Source	
1930	Capitol Coffee Co Inc	R.L. Polk Co., Inc.	Image pg. A39
	De Walt Saw Machinery Co	R.L. Polk Co., Inc.	Image pg. A39
1924	AMERICAN Rubber Mfg Co H C Dodge rep belting	R.L. Polk Co., Inc.	

71 1ST

Year	Uses	Source	
1930	Taylor E L Co blksmith	R.L. Polk Co., Inc.	Image pg. A41
	Fraser Welding Works	R.L. Polk Co., Inc.	Image pg. A41
1924	TAYLOR E L & CO E L and G M Taylor Blacksmiths Manufacturers of Logging Tools and Taylors Blocks Oeneral Repairing	R.L. Polk Co., Inc.	

73 1ST

Year	Uses	Source	
1930	Atkins E C & Co saw mfrs	R.L. Polk Co., Inc.	Image pg. A41
1924	Falconbury Arth restrwkr	R.L. Polk Co., Inc.	

75 1ST

Year	Uses	Source	
1930	Atkins E C & Co saw mfrs	R.L. Polk Co., Inc.	Image pg. A41

76 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A41

80 1ST

Year	Uses	Source	
1930	Lawrence Geo Co The leather dlrs	R.L. Polk Co., Inc.	Image pg. A41

81 1ST

Year	Uses	Source	
1930	Simonds Worden White Co machy	R.L. Polk Co., Inc.	Image pg. A41

FINDINGS

Year	Uses	Source	
1930	Peerless Belting Co	R.L. Polk Co., Inc.	Image pg. A41
	Vacant	R.L. Polk Co., Inc.	Image pg. A41
1924	Graton & Knight Wm Koepf mgr belting	R.L. Polk Co., Inc.	

83 1ST

Year	Uses	Source	
1930	Wiles Wm E	R.L. Polk Co., Inc.	Image pg. A41
	Acme Hotel	R.L. Polk Co., Inc.	Image pg. A41
	Baltes F W & Co printers	R.L. Polk Co., Inc.	Image pg. A41
	Clarke Louise cigars	R.L. Polk Co., Inc.	Image pg. A41
1924	Wiles Minnie J Mrs Acme Hotel	R.L. Polk Co., Inc.	
	Wiles J C police	R.L. Polk Co., Inc.	
	WEST Geo C Ida V loggers supplies	R.L. Polk Co., Inc.	
	Standish Nevada wid Arth	R.L. Polk Co., Inc.	
	ROSE Fred lngshrmn	R.L. Polk Co., Inc.	
	Radick Rudolph logger	R.L. Polk Co., Inc.	
	Radick Nux logger	R.L. Polk Co., Inc.	
	Mandinos Geo lab	R.L. Polk Co., Inc.	
	HEALY Thos lngshrmn	R.L. Polk Co., Inc.	
	Galass Jno lab	R.L. Polk Co., Inc.	
	Biner Oscar jntr	R.L. Polk Co., Inc.	
	ALLEIN J C Mary tmstr	R.L. Polk Co., Inc.	

85 1ST

Year	Uses	Source	
1930	Simonds Saw & Steel Co	R.L. Polk Co., Inc.	Image pg. A41

86 1ST

Year	Uses	Source	
1930	Lawrence Geo Co The leather dlrs	R.L. Polk Co., Inc.	Image pg. A41

88 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A41
1924	NORTHWEST WELDING & SUPPLY CO L R Roberts Pros Clara Roberts Sec G A Roberts Treas Brazing Welding and Cutting Welding Supplies and Equipment	R.L. Polk Co., Inc.	
	ROBERTS Clara Mrs sec Northwest Welding&Supply Co	R.L. Polk Co., Inc.	
	Roberts Lyman R Clara pres Northwest Welding&Supply Co	R.L. Polk Co., Inc.	

FINDINGS

89 1ST

Year	Uses	Source	
1930	Simonds Saw & Steel Co	R.L. Polk Co., Inc.	Image pg. A41

90 1ST

Year	Uses	Source	
1930	Mc Dougall G F Co mech eng	R.L. Polk Co., Inc.	Image pg. A43
1924	WESTERN ROOFING & SUPPLY CO J A Barbour Pres Chas B King VPres Boofing Roof Repairing Felts Etc	R.L. Polk Co., Inc.	

91 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A43

92 1ST

Year	Uses	Source	
1930	Rogers J R printer	R.L. Polk Co., Inc.	Image pg. A43
	Multnomah Sheet Mtl Works	R.L. Polk Co., Inc.	Image pg. A43
1924	RECORD ABSTRACT CO J H Rogers Pres H: G Haugston V Pres EditorMgr Publishers The Daily RecordAbstract	R.L. Polk Co., Inc.	
	ANE Barngrover Mfg Co Cyd Gaskell rep canning machy	R.L. Polk Co., Inc.	
	DAILY RECORD ABSTRACT RecordAbstract Co Publrs	R.L. Polk Co., Inc.	
	Seattle Hardware Co W S Henderson rep whol hdwe	R.L. Polk Co., Inc.	

93 1ST

Year	Uses	Source	
1930	Gilmore Mfg Co water heaters	R.L. Polk Co., Inc.	Image pg. A43
1924	Westco Chippewa Pump Co C C Shaw rep	R.L. Polk Co., Inc.	

94 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A43
1924	MUNNEIL & SHE:&RLL E J Munnell A J Sherrill Belting Boofing Auto Tires Mill Supplies	R.L. Polk Co., Inc.	
	CHICAGO BELTING CO	R.L. Polk Co., Inc.	
	PIONEER RIXYBBER MILILS Munnell & Sherrill Mgrs Rubber Belting Hose and Packing	R.L. Polk Co., Inc.	

FINDINGS

95 1ST

Year	Uses	Source	
1930	Consolidated Supply Co	R.L. Polk Co., Inc.	Image pg. A43

100 1ST

Year	Uses	Source	
1930	Ajax Rubber Co Inc	R.L. Polk Co., Inc.	Image pg. A35
	Chicago Belting Co	R.L. Polk Co., Inc.	Image pg. A35
	Pioneer Rubber Mills	R.L. Polk Co., Inc.	Image pg. A35
	Munnell & Sherrill	R.L. Polk Co., Inc.	Image pg. A35
	Mc Laren Tire & Rubber Co	R.L. Polk Co., Inc.	Image pg. A35
1924	Murtinger Jno cigars	R.L. Polk Co., Inc.	
	Gazzola Emelia wid Tony Progress Restaurant	R.L. Polk Co., Inc.	
	PROGRESS RIESTAURANT Mrs Tony Gazzola Portlands Leading Italian Restaurant Reservations Made for Parties	R.L. Polk Co., Inc.	

101 1ST

Year	Uses	Source	
1930	Oregon Leather Co Inc whol	R.L. Polk Co., Inc.	Image pg. A35
1924	Puget Sound Iron & Steel Works TLidgerwood Mfg Co distr	R.L. Polk Co., Inc.	

103 1ST

Year	Uses	Source	
1930	Oregon Leather Co Inc whol	R.L. Polk Co., Inc.	Image pg. A35

104 1ST

Year	Uses	Source	
1930	Railway Equipment Co	R.L. Polk Co., Inc.	Image pg. A35
1924	Railway Equipment Co W T OBrien mgr	R.L. Polk Co., Inc.	

105 1ST

Year	Uses	Source	
1930	Oregon Marine Supply Co ship chandlers	R.L. Polk Co., Inc.	Image pg. A35
1924	PACIFIC Net & Twine Co Portland Branch Oregon Marine & Fisheries Supply Co agts	R.L. Polk Co., Inc.	
	Plymouth Cordage Co Oregon Marine & Fisheries Supply Co agts	R.L. Polk Co., Inc.	

FINDINGS

106 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A35

107 1ST

Year	Uses	Source	
1930	Oregon Marine Supply Co ship chandlers	R.L. Polk Co., Inc.	Image pg. A35
	Portland Marine Supply Co ship chandlers	R.L. Polk Co., Inc.	Image pg. A35

108 1ST

Year	Uses	Source	
1930	Carvers Cafeteria	R.L. Polk Co., Inc.	Image pg. A35
	Deibert W H & Son cbtmkrs	R.L. Polk Co., Inc.	Image pg. A35
1924	Wierzbicki Jno carp	R.L. Polk Co., Inc.	
	Carver Chas F Florence E restr	R.L. Polk Co., Inc.	

109 1ST

Year	Uses	Source	
1930	Gadsby Wm & Sons furn	R.L. Polk Co., Inc.	Image pg. A35

110 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A37
1924	Koontz Francis M Addie harness	R.L. Polk Co., Inc.	

112 1ST

Year	Uses	Source	
1930	Pioneer Library Bindery bkbndrs	R.L. Polk Co., Inc.	Image pg. A37
	Lincoln & Allen printers	R.L. Polk Co., Inc.	Image pg. A37
	Smith Alex D cigars	R.L. Polk Co., Inc.	Image pg. A37
	Wright Hattie B Mrs	R.L. Polk Co., Inc.	Image pg. A37
	Pierce Danl L barber	R.L. Polk Co., Inc.	Image pg. A37
	Pentecostal Assembly Mission	R.L. Polk Co., Inc.	Image pg. A37
1924	LINCOLN & ALLEN F A Lincoln Geo M Al Uen Bookbinders Blank Book Mfrs	R.L. Polk Co., Inc.	
	Bozlee & Carver F R Bozlee Myron Carver tires	R.L. Polk Co., Inc.	
	Pentecost Assembly Mission	R.L. Polk Co., Inc.	
	PIONEER LIBRARY BINDERY Fred A Lincoln Mgr Bookbinders	R.L. Polk Co., Inc.	
	ROSE City Sign Co Jesse L and M E Morgan	R.L. Polk Co., Inc.	

FINDINGS

114 1ST

Year	Uses	Source	
1930	Bonded Tire Service	R.L. Polk Co., Inc.	Image pg. A37
1924	Washburn Chas 0 H Irene pet stock	R.L. Polk Co., Inc.	

115 1ST

Year	Uses	Source	
1930	Gadsby Wm & Sons furn	R.L. Polk Co., Inc.	Image pg. A37

120 1ST

Year	Uses	Source	
1930	Beebe Co The marine hdw	R.L. Polk Co., Inc.	Image pg. A37
1924	WALTEIR Jno A Bertha tires	R.L. Polk Co., Inc.	
	Glidden Co IVSater slsmgr paints	R.L. Polk Co., Inc.	
	Beebe Co Kenneth Beebe pres G E Beebe vpres H A Riggs sec machy	R.L. Polk Co., Inc.	

123 1ST

Year	Uses	Source	
1930	Brandes Creamery whol butter eggs cheese	R.L. Polk Co., Inc.	Image pg. A37
1924	Coast Cigar Co I G Schwartz pres whol cigars	R.L. Polk Co., Inc.	

124 1ST

Year	Uses	Source	
1930	Beebe Co The marine hdw	R.L. Polk Co., Inc.	Image pg. A37

125 1ST

Year	Uses	Source	
1930	Brandes Creamery whol butter eggs cheese	R.L. Polk Co., Inc.	Image pg. A37
1924	Wester Edwin P barber	R.L. Polk Co., Inc.	
	Akerstrom & Erickson Ivar Akerstrom Jno Erickson soft drinks	R.L. Polk Co., Inc.	

126 1ST

Year	Uses	Source	
1930	Western Fish Co ret and whol	R.L. Polk Co., Inc.	Image pg. A37
	Vacant	R.L. Polk Co., Inc.	Image pg. A37
1924	Boznich Jos oyster opener	R.L. Polk Co., Inc.	

FINDINGS

127 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A37
1924	Brandes Creamery L A Brandes pres F F Brandes sec J N Archbold treas	R.L. Polk Co., Inc.	

128 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A37
	King Tailors	R.L. Polk Co., Inc.	Image pg. A37
1924	New	R.L. Polk Co., Inc.	
	Cullen Edw prsmn	R.L. Polk Co., Inc.	

129 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A37
1924	CASEY Patk M slsn Boxer Trading Co	R.L. Polk Co., Inc.	
	BOXEB TRADING CO I Boxer Show Cases Cash Registers Scales Safes Fountains also Oeneral Line of Store and Office Fixtures	R.L. Polk Co., Inc.	

130 1ST

Year	Uses	Source	
1930	Kadderly J J Co hdw	R.L. Polk Co., Inc.	Image pg. A37

131 1ST

Year	Uses	Source	
1930	Boxer Fixture Co Inc store fixtures	R.L. Polk Co., Inc.	Image pg. A37
1924	Pres Jobbing & Fixture Co Wm H ochfeld mgr	R.L. Polk Co., Inc.	

133 1ST

Year	Uses	Source	
1930	Tong Charlie G	R.L. Polk Co., Inc.	Image pg. A37
	23 Vacant	R.L. Polk Co., Inc.	Image pg. A37
	Lung Kee	R.L. Polk Co., Inc.	Image pg. A37
	14 Soy Gee Chinese Medicine Co	R.L. Polk Co., Inc.	Image pg. A37
	2 Vacant	R.L. Polk Co., Inc.	Image pg. A37
	Rooms	R.L. Polk Co., Inc.	Image pg. A37
	Boxer Fixture Co Inc store fixtures	R.L. Polk Co., Inc.	Image pg. A37

FINDINGS

134 1ST

Year	Uses	Source	
1930	Portland Electric Power Co city tkt ofc	R.L. Polk Co., Inc.	Image pg. A37
	Pappas & Manos conf	R.L. Polk Co., Inc.	Image pg. A37
	Railway Express Agcy	R.L. Polk Co., Inc.	Image pg. A37
1924	Pulos Jno Pitsa conf	R.L. Polk Co., Inc.	

135 1ST

Year	Uses	Source	
1930	Kirwan Porter Drug Co	R.L. Polk Co., Inc.	Image pg. A37
1924	Zeazeas Bros J G Jno and Michi cigars	R.L. Polk Co., Inc.	

140 1ST

Year	Uses	Source	
1930	Candioglos Antone cigars and restr	R.L. Polk Co., Inc.	Image pg. A37

141 1ST

Year	Uses	Source
1924	Costos & Cristos P J Costos Chris Cristos restr	R.L. Polk Co., Inc.
	Berger Albt grdnr	R.L. Polk Co., Inc.
	Costos Nicholas cook	R.L. Polk Co., Inc.

142 1ST

Year	Uses	Source	
1930	Tipton Apartments	R.L. Polk Co., Inc.	Image pg. A37
	Community Furniture Co	R.L. Polk Co., Inc.	Image pg. A37
1924	Jamerson Fred 0 lab	R.L. Polk Co., Inc.	
	Gilman Apartments Mrs S A Evans	R.L. Polk Co., Inc.	
	Brickman Margt A	R.L. Polk Co., Inc.	
	Tipton Apartments Y Okasaki	R.L. Polk Co., Inc.	
	Plortland Furniture Co J Rosencrantz	R.L. Polk Co., Inc.	
	Sife Alf	R.L. Polk Co., Inc.	

144 1ST

Year	Uses	Source	
1930	Sax Moses B mens furngs	R.L. Polk Co., Inc.	Image pg. A37
1924	SAX Moses Maryclothing	R.L. Polk Co., Inc.	

145 1ST

Year	Uses	Source	
1930	Gleams of Grace Mission	R.L. Polk Co., Inc.	Image pg. A37

FINDINGS

Year	Uses	Source	
1930	Boxer Salvage & Fixture Co	R.L. Polk Co., Inc.	Image pg. A37
1924	Johnsen Peter R fish	R.L. Polk Co., Inc.	

146 1ST

Year	Uses	Source	
1930	Portland Commons Annex lodgings	R.L. Polk Co., Inc.	Image pg. A37
	Vacant	R.L. Polk Co., Inc.	Image pg. A37
1924	Arcade Hotel fturn rms	R.L. Polk Co., Inc.	
	Boxer Abr Anna furn	R.L. Polk Co., Inc.	
	Whistle Chas lngshrmni	R.L. Polk Co., Inc.	

147 1ST

Year	Uses	Source	
1930	Mizhuta H barber	R.L. Polk Co., Inc.	Image pg. A37
	Ito Shiro	R.L. Polk Co., Inc.	Image pg. A37

148 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A37
1924	OREGON LEATHER CO INC B A MacPherson Mgr J K Mac Pherson SecTreas Leather Shoe Pindings Shoe Store Supplies Shoe Machinery	R.L. Polk Co., Inc.	

149 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A37
1924	Pidcock & Hazel G A Pidcock L L Hazel paints	R.L. Polk Co., Inc.	
	Wisegarver Jno W violin repr	R.L. Polk Co., Inc.	

150 1ST

Year	Uses	Source	
1930	Windsor Hotel	R.L. Polk Co., Inc.	Image pg. A37
1924	Duncan Clyde lngshrmn	R.L. Polk Co., Inc.	
	Costos Peter J Costos & Cristos restr	R.L. Polk Co., Inc.	
	BOYD Jas wchmn	R.L. Polk Co., Inc.	
	Walker MIary J Mrs Tourist Hotel	R.L. Polk Co., Inc.	
	Greenlief Albt eng	R.L. Polk Co., Inc.	
	Ly Edw pilot	R.L. Polk Co., Inc.	
	Mendelhall Hugh	R.L. Polk Co., Inc.	
	Neill Carl lngshrmn	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	OLSEN Lars shoemkr	R.L. Polk Co., Inc.	
	ROSS eo G slsn OW&K	R.L. Polk Co., Inc.	

160 1ST

Year	Uses	Source	
1924	STAR Furniture Co David Light Harry Zavin	R.L. Polk Co., Inc.	

163 1ST

Year	Uses	Source	
1930	Advertisers Art & Engraving Co	R.L. Polk Co., Inc.	Image pg. A37
	Everkeen Magnetic Blade Sharpener	R.L. Polk Co., Inc.	Image pg. A37
1924	C J millwkr	R.L. Polk Co., Inc.	
	PARKER Pierce Y bill distr	R.L. Polk Co., Inc.	

164 1ST

Year	Uses	Source	
1930	Franklin & Co 2d hd gds	R.L. Polk Co., Inc.	Image pg. A37
1924	WRIGHT Frank	R.L. Polk Co., Inc.	
	Mc Wm driver	R.L. Polk Co., Inc.	
	Harry elk Specialty Auto Equip Co	R.L. Polk Co., Inc.	
	Roberts Pres P J Landers Sec Treas Carl H Pinseth Hayfield Minn VPres Glass Sash Doors and Mouldings Paints Varnish and Oils Oregon Agents California Paint Co	R.L. Polk Co., Inc.	
	OLSON Peter carp	R.L. Polk Co., Inc.	

166 1ST

Year	Uses	Source	
1930	Owl Furniture Co	R.L. Polk Co., Inc.	Image pg. A37

167 1ST

Year	Uses	Source	
1930	Schaaf H A barber	R.L. Polk Co., Inc.	Image pg. A37
	Gevurtz S Furniture Store	R.L. Polk Co., Inc.	Image pg. A37
	Chase E L lodgings	R.L. Polk Co., Inc.	Image pg. A37

169 1ST

Year	Uses	Source	
1924	Korman Israel Eva furn	R.L. Polk Co., Inc.	

FINDINGS

170 1ST

Year	Uses	Source	
1930	United Brethren Chinese Mission	R.L. Polk Co., Inc.	Image pg. A37
	Western Picture Frame Co	R.L. Polk Co., Inc.	Image pg. A37

171 1ST

Year	Uses	Source	
1930	Portland Paint Co	R.L. Polk Co., Inc.	Image pg. A37
1924	PORTLAND PAINT COMPANY C C Hill Mgr Dealers and Xfrs of Paints Oils Sash and Doors and Special Mil Uwork	R.L. Polk Co., Inc.	
	LOCKE & Green Paint Co F W Locke A H Green paints	R.L. Polk Co., Inc.	

172 1ST

Year	Uses	Source	
1930	Miller Paint & Wall Paper Co	R.L. Polk Co., Inc.	Image pg. A37
1924	Paint & Wall Paper Co Ernest Miller	R.L. Polk Co., Inc.	

173 1ST

Year	Uses	Source	
1930	Imperial Auction Mart furn	R.L. Polk Co., Inc.	Image pg. A37
1924	Dunis Banet Gertrude furn	R.L. Polk Co., Inc.	

174 1ST

Year	Uses	Source	
1930	Feldstein Furniture Co	R.L. Polk Co., Inc.	Image pg. A37
1924	Feldstein Adolph Bertha furn	R.L. Polk Co., Inc.	

179 1ST

Year	Uses	Source
1924	DAVJS Geo E waiter	R.L. Polk Co., Inc.

180 1ST

Year	Uses	Source	
1930	Standard Furniture & Hardware Co	R.L. Polk Co., Inc.	Image pg. A37

181 1ST

Year	Uses	Source	
1930	Fremont Hotel	R.L. Polk Co., Inc.	Image pg. A37
	La Grande Creamery Co	R.L. Polk Co., Inc.	Image pg. A37
1924	Kojima M Mrs Fremont Hotel	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	La Grande Creamery Co W N and J Q A Daniels	R.L. Polk Co., Inc.	

182 1ST

Year	Uses	Source	
1930	Standard Furniture & Hardware Co	R.L. Polk Co., Inc.	Image pg. A37
1924	STANDARD Furniture & Hardware Co Hirsch and Eug Rosencrantz	R.L. Polk Co., Inc.	

183 1ST

Year	Uses	Source	
1930	Meyer H shoe repr	R.L. Polk Co., Inc.	Image pg. A37
	Hodel Peter barber	R.L. Polk Co., Inc.	Image pg. A37
1924	Schaaf Harman barber	R.L. Polk Co., Inc.	

184 1ST

Year	Uses	Source	
1930	Mesher Plumbing Supply Co Inc	R.L. Polk Co., Inc.	Image pg. A37
1924	Mesher Plumbing Supply Co N B Mesher	R.L. Polk Co., Inc.	

185 1ST

Year	Uses	Source	
1930	Manor Furniture Co	R.L. Polk Co., Inc.	Image pg. A37

186 1ST

Year	Uses	Source	
1930	Butzers Seed Store	R.L. Polk Co., Inc.	Image pg. A37
1924	PIONEER Paint Store E S Dean mgr	R.L. Polk Co., Inc.	
	BASS HUETER PAINT CO Edgar S Dean Xgr Paints Oils and Glass	R.L. Polk Co., Inc.	

187 1ST

Year	Uses	Source	
1930	Manor Furniture Co	R.L. Polk Co., Inc.	Image pg. A37
1924	PACIFIC Coast Furniture Co R S Manor	R.L. Polk Co., Inc.	

188 1ST

Year	Uses	Source	
1930	Mish Furniture Co	R.L. Polk Co., Inc.	Image pg. A37
1924	Mish Simon Capitola furn	R.L. Polk Co., Inc.	

FINDINGS

189 1ST

Year	Uses	Source	
1930	Hochfeld Bros store fixtures	R.L. Polk Co., Inc.	Image pg. A37

190 1ST

Year	Uses	Source	
1930	Dayton Hotel	R.L. Polk Co., Inc.	Image pg. A37
1924	ROBERTS J W	R.L. Polk Co., Inc.	
	RANDA Jack driver	R.L. Polk Co., Inc.	
	Osur Robt	R.L. Polk Co., Inc.	
	Noma Ben K Yaeno Dayton Hotel	R.L. Polk Co., Inc.	
	Loesch E	R.L. Polk Co., Inc.	
	Tallman W T stovemkr	R.L. Polk Co., Inc.	
	Whittier Henry J piano tuner	R.L. Polk Co., Inc.	
	BELL Ed	R.L. Polk Co., Inc.	
	Berg F G sawyer	R.L. Polk Co., Inc.	
	Bloom Oscar waiter	R.L. Polk Co., Inc.	
	Bragues Frank elk Ore Bowling Alleys	R.L. Polk Co., Inc.	
	Breeding Thos B lab	R.L. Polk Co., Inc.	
	Bridelman H B linemn	R.L. Polk Co., Inc.	
	DAYTON HOTEL B K Noma D Nakagawa Neat Comfortable Rooms	R.L. Polk Co., Inc.	
	Drefs Ed linemn	R.L. Polk Co., Inc.	
	Eckland T	R.L. Polk Co., Inc.	
	FOSTERP Jack lab	R.L. Polk Co., Inc.	
	FOSTERP Jacob lab	R.L. Polk Co., Inc.	
	Frikelmyer Jos	R.L. Polk Co., Inc.	
	Hight Orrin L barber	R.L. Polk Co., Inc.	
	Honeywell Grant E slsn Or Mairne&Fisheries Supply Co	R.L. Polk Co., Inc.	
	JACKSON A G	R.L. Polk Co., Inc.	
	JOHNSON E H	R.L. Polk Co., Inc.	
	Langas Paul chauf	R.L. Polk Co., Inc.	

191 1ST

Year	Uses	Source	
1930	Oregon Furniture Co	R.L. Polk Co., Inc.	Image pg. A37
1924	COHN & Wieder Furniture Co A M Cohn Louis Wieder	R.L. Polk Co., Inc.	

FINDINGS

192 1ST

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A37

193 1ST

Year	Uses	Source	
1930	Red Front Inc clo	R.L. Polk Co., Inc.	Image pg. A37
	New Belmont Hotel	R.L. Polk Co., Inc.	Image pg. A37
1924	NEW BELMONT HOTELI S Tsuji	R.L. Polk Co., Inc.	
	Norman Alf L restrwkr	R.L. Polk Co., Inc.	
	Salmon Sylvester L	R.L. Polk Co., Inc.	

194 1ST

Year	Uses	Source	
1930	Dayton Hardware Co	R.L. Polk Co., Inc.	Image pg. A37
1924	DAYTON HARDWARE CO W C Middleton Prop P H XNoltner Mgr Hardware Tools Electrical Goods FPishing Tackle	R.L. Polk Co., Inc.	
	Middleton Wm C Dayton Hdwe Co	R.L. Polk Co., Inc.	

195 1ST

Year	Uses	Source	
1930	Red Front Inc clo	R.L. Polk Co., Inc.	Image pg. A37
1924	RED Front Inc Hyman Schweltz pres Jos Schweltz v pres Chas Bromberg sectreas clothing	R.L. Polk Co., Inc.	

1ST MORRIS

11 1ST MORRIS

Year	Uses	Source
1924	Sturtz Geo Amelia car repr	R.L. Polk Co., Inc.

1ST ST

48 1ST ST

Year	Uses	Source
2003	FAIRVIEW CITY OF PUBLIC WORKS	Cole Information Services

FINDINGS

1ST ST NE

40 1ST ST NE

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A1
1980	Tallman Wm E	R.L. Polk Co. Publishers	Image pg. A8
1977	Tallman Wnm E	R.L. Polk Co. Publishers	Image pg. A16

90 1ST ST NE

Year	Uses	Source	
1985	F City Shops	R. L. Polk and Co. Publishers	Image pg. A1
1980	F City Shops	R.L. Polk Co. Publishers	Image pg. A8
1977	F City Shops	R.L. Polk Co. Publishers	Image pg. A16
1970	City Shops	R.L.Polk Co.	Image pg. A23

160 1ST ST NE

Year	Uses	Source	
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A16
1970	Tole Shop painting instructions	R.L.Polk Co.	Image pg. A23

185 1ST ST NE

Year	Uses	Source	
1985	Felker Chism L	R. L. Polk and Co. Publishers	Image pg. A1
1980	Felker Chism	R.L. Polk Co. Publishers	Image pg. A8
1977	Felker Chisin	R.L. Polk Co. Publishers	Image pg. A16
1970	Felker Chism	R.L.Polk Co.	Image pg. A23

1ST WAINDRICK MYRTLE STNG JNO OUNTY

83 1ST WAINDRICK MYRTLE STNG JNO OUNTY

Year	Uses	Source
1924	Winodw Windren Helen Mrs	R.L. Polk Co., Inc.

2ND

101 2ND

Year	Uses	Source	
1930	Up & In Fountain Lunch	R.L. Polk Co., Inc.	Image pg. A44

102 2ND

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A44

FINDINGS

Year	Uses	Source	
1930	A Price Typesetting Co	R.L. Polk Co., Inc.	Image pg. A44
	lobby Kernan Wm B cigars	R.L. Polk Co., Inc.	Image pg. A44
	B Portland Monotype Co	R.L. Polk Co., Inc.	Image pg. A44
	Exchange Building	R.L. Polk Co., Inc.	Image pg. A44

103 2ND

Year	Uses	Source	
1930	Ruedy Eugene plmbr	R.L. Polk Co., Inc.	Image pg. A45
	Wagner C A Co loans	R.L. Polk Co., Inc.	Image pg. A45
1924	WAGNER C A Co C A Wagner ins	R.L. Polk Co., Inc.	
	Ruedy Eug Maud plmbr	R.L. Polk Co., Inc.	

104 2ND

Year	Uses	Source	
1930	Niada Co mtge loans	R.L. Polk Co., Inc.	Image pg. A45
	Tenet Mortgage Co loans	R.L. Polk Co., Inc.	Image pg. A45
	Security Co inv sec	R.L. Polk Co., Inc.	Image pg. A45
	Ashley Insurance Agency	R.L. Polk Co., Inc.	Image pg. A45
1924	Acketson & lindey A II Ackerson N 0 Lindey iris	R.L. Polk Co., Inc.	

105 2ND

Year	Uses	Source	
1930	Pacific Stationery & Printing Co	R.L. Polk Co., Inc.	Image pg. A45
1924	Halls Safe Co Norris Safe&Lock Co agts	R.L. Polk Co., Inc.	
	NORRIS SAFE &t LOCK CO A G Mink Mgr Agent for the Halls Safe Co Ely Norris Safe Co and Filing Safes	R.L. Polk Co., Inc.	

106 2ND

Year	Uses	Source
1924	BOYD TEA CO P D Boyd Tea Coffee and Spices	R.L. Polk Co., Inc.

107 2ND

Year	Uses	Source	
1930	Pacific Stationery & Printing Co	R.L. Polk Co., Inc.	Image pg. A45
1924	STANDARD REGISTER CO With or Without Cash Drawer H P Lintner Factory Representative	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	PACIFIC STATIONERY t& PRINTING CO Lee D Hunter Pres Mgr J A Marlitt V Pres L B Mc Manus Soc Office Stationery Commercial Printing and Loose Leaf Systems	R.L. Polk Co., Inc.	

108 2ND

Year	Uses	Source	
1930	Smiths Wall Paper House	R.L. Polk Co., Inc.	Image pg. A45

109 2ND

Year	Uses	Source	
1930	Coulter Co The music instrument mkrs	R.L. Polk Co., Inc.	Image pg. A45
	Sunset Press printers	R.L. Polk Co., Inc.	Image pg. A45
1924	NELSON Mc HTUGH & EBICZSON PBIXTERS INC T X Mc Hugh Pros X A Nelson Sec Treas	R.L. Polk Co., Inc.	
	Torrey & Alexander WD Torrey T L Alexander linotypers	R.L. Polk Co., Inc.	

110 2ND

Year	Uses	Source	
1930	Smiths Wall Paper House	R.L. Polk Co., Inc.	Image pg. A45
	Labbe Building	R.L. Polk Co., Inc.	Image pg. A45
1924	Bayard Anna E slsn Smiths Wall Paper Flouse	R.L. Polk Co., Inc.	

111 2ND

Year	Uses	Source	
1930	Davis & Holman Inc bookbinders	R.L. Polk Co., Inc.	Image pg. A45
1924	DAVIS & HOLMAN ING Wm Davis Pros Bufus C Holman Sec Book Binders and Blank Book Manufacturers	R.L. Polk Co., Inc.	

113 2ND

Year	Uses	Source	
1930	Oregon Cleaners & Tailors	R.L. Polk Co., Inc.	Image pg. A45
	Nielsen H P barber	R.L. Polk Co., Inc.	Image pg. A45
1924	Engle M Harry barber	R.L. Polk Co., Inc.	

115 2ND

Year	Uses	Source	
1930	Public Comfort Station men	R.L. Polk Co., Inc.	Image pg. A45

FINDINGS

116 2ND

Year	Uses	Source	
1930	Dunham Printing Co	R.L. Polk Co., Inc.	Image pg. A45

117 2ND

Year	Uses	Source	
1930	Opera House Laundry br office	R.L. Polk Co., Inc.	Image pg. A45

120 2ND

Year	Uses	Source	
1930	Quality Barber Shop	R.L. Polk Co., Inc.	Image pg. A45

122 2ND

Year	Uses	Source	
1930	Mc Donald Jos R shoe repr	R.L. Polk Co., Inc.	Image pg. A45

124 2ND

Year	Uses	Source	
1930	Evinrude Epton Co boat bldrs	R.L. Polk Co., Inc.	Image pg. A45

125 2ND

Year	Uses	Source	
1930	Pioneer Employment Co	R.L. Polk Co., Inc.	Image pg. A45

126 2ND

Year	Uses	Source	
1930	Brett Wm J restr	R.L. Polk Co., Inc.	Image pg. A45
	Popular The cigars	R.L. Polk Co., Inc.	Image pg. A45
	Popular Barber Shop	R.L. Polk Co., Inc.	Image pg. A45
1924	TAUSCHER Rudolph Rose soft drinks	R.L. Polk Co., Inc.	

127 2ND

Year	Uses	Source	
1930	Gilman A K locksmith	R.L. Polk Co., Inc.	Image pg. A45

128 2ND

Year	Uses	Source	
1930	Simons steel prod	R.L. Polk Co., Inc.	Image pg. A45
	Christie Printing Co	R.L. Polk Co., Inc.	Image pg. A45
	Gotshall Printing Co	R.L. Polk Co., Inc.	Image pg. A45
	Jamison A shoe shiner	R.L. Polk Co., Inc.	Image pg. A45
	Evans Sarah E Mrs lodgings	R.L. Polk Co., Inc.	Image pg. A45

FINDINGS

Year	Uses	Source	
1930	Kelly Chas H barber	R.L. Polk Co., Inc.	Image pg. A45
1924	Hamel Jos lab	R.L. Polk Co., Inc.	
	Hamilton David M mgr Northwest Seed Co	R.L. Polk Co., Inc.	
	HARRIS F J lather	R.L. Polk Co., Inc.	
	John Wah Leona	R.L. Polk Co., Inc.	
	KNIGHT Wilfred J cigars	R.L. Polk Co., Inc.	
	Limbach Chriss Florence lab	R.L. Polk Co., Inc.	
	Prentico Celia musician	R.L. Polk Co., Inc.	
	RAYMOND J C	R.L. Polk Co., Inc.	
	SNYDER Cath wid Herman	R.L. Polk Co., Inc.	
	Thornton Frances Mrs	R.L. Polk Co., Inc.	
	Wah Jno Leona	R.L. Polk Co., Inc.	
	ALLEIN J C	R.L. Polk Co., Inc.	
	CHRISTIE Printing Co Wm Christie	R.L. Polk Co., Inc.	
	CLARK Glaley musician	R.L. Polk Co., Inc.	
	Farrer Harley Mrs	R.L. Polk Co., Inc.	
	Gotshall Printing Co Mrs F E Robinson	R.L. Polk Co., Inc.	
	Grabeel Franklin NW barber	R.L. Polk Co., Inc.	

129 2ND

Year	Uses	Source	
1930	Oregon Creamery	R.L. Polk Co., Inc.	Image pg. A45
1924	PORTLAND Gymnasium V L Hamlin mgr	R.L. Polk Co., Inc.	
	Shevach Wm Rose clothing	R.L. Polk Co., Inc.	

130 2ND

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A45
1924	OREGON Creamery Fred Knecht	R.L. Polk Co., Inc.	

131 2ND

Year	Uses	Source
1924	Semler Leon shoes	R.L. Polk Co., Inc.
	Gilman Adrian K Alice locksmh	R.L. Polk Co., Inc.

132 2ND

Year	Uses	Source	
1930	Pacific Hardware & Electric Co	R.L. Polk Co., Inc.	Image pg. A45
1924	KRAUS HARDWARE CO J S Xraus Cut Rate Hardware Stores Sell Better Bargains	R.L. Polk Co., Inc.	

FINDINGS

133 2ND

Year	Uses	Source	
1930	Griffith Henry T phrenologist	R.L. Polk Co., Inc.	Image pg. A45

134 2ND

Year	Uses	Source	
1930	Army & Navy Goods Store	R.L. Polk Co., Inc.	Image pg. A45

135 2ND

Year	Uses	Source	
1930	Hub The side entr	R.L. Polk Co., Inc.	Image pg. A45

140 2ND

Year	Uses	Source	
1924	Price Chas R V Belle firemn	R.L. Polk Co., Inc.	

142 2ND

Year	Uses	Source	
1930	Mizuno Sadao photog	R.L. Polk Co., Inc.	Image pg. A45
	Alder Sweet Shop	R.L. Polk Co., Inc.	Image pg. A45
	Chan Lam Chinese Medicine Co	R.L. Polk Co., Inc.	Image pg. A45
	Panama Art Shop	R.L. Polk Co., Inc.	Image pg. A45
	Panama Press printers	R.L. Polk Co., Inc.	Image pg. A45
	Montana Assay Office	R.L. Polk Co., Inc.	Image pg. A45
1924	OREGON Fan Belt Mfg Co L L Blumenthal Wm Starrett	R.L. Polk Co., Inc.	
	MONTANA ASSAY OFFICE 3 L Graves X B Williams Chemists Assayers and Metallurgists Befiners and Manufacturers of Jewelers and Dentists Alloys and Solders	R.L. Polk Co., Inc.	
	Ouranakes Speros conf	R.L. Polk Co., Inc.	
	Brennan Robt T dentist	R.L. Polk Co., Inc.	

143 2ND

Year	Uses	Source	
1930	Alder Street Pharmacy side entr	R.L. Polk Co., Inc.	Image pg. A45

144 2ND

Year	Uses	Source	
1930	Morrison Hat Renewal Shop	R.L. Polk Co., Inc.	Image pg. A45
1924	Denzel Drug Co L F Denzel	R.L. Polk Co., Inc.	

FINDINGS

145 2ND

Year	Uses	Source	
1930	Routledge Seed & Floal Co Inc	R.L. Polk Co., Inc.	Image pg. A45

146 2ND

Year	Uses	Source	
1930	Palace Laundry br	R.L. Polk Co., Inc.	Image pg. A45
	Coney Island Sandwich Stand	R.L. Polk Co., Inc.	Image pg. A45

147 2ND

Year	Uses	Source	
1930	Routledge Seed & Floal Co Inc	R.L. Polk Co., Inc.	Image pg. A45
	Albany Hotel	R.L. Polk Co., Inc.	Image pg. A45
1924	Maehara Benso ingr Albany Hotel	R.L. Polk Co., Inc.	
	Maehara Riketaro Albany Hotel	R.L. Polk Co., Inc.	
	Michalis Jas mgr SOuranakes	R.L. Polk Co., Inc.	
	Lee mech	R.L. Polk Co., Inc.	
	ALBANY HOTEL B Maehara Well Furnished Comfortable Booms Centrally Located	R.L. Polk Co., Inc.	
	Breckenridge Wm clk LMayer&Co	R.L. Polk Co., Inc.	
	Dennis H slsn	R.L. Polk Co., Inc.	
	Duncan Cecil T restrhlpr	R.L. Polk Co., Inc.	
	DUNCAN Le Roy W barber	R.L. Polk Co., Inc.	

148 2ND

Year	Uses	Source	
1930	Terminal Market gro and meats	R.L. Polk Co., Inc.	Image pg. A45
1924	Lynn Jno W Stella restr	R.L. Polk Co., Inc.	
	Heberling Ward A grocer	R.L. Polk Co., Inc.	

149 2ND

Year	Uses	Source	
1930	Curlys Cafe	R.L. Polk Co., Inc.	Image pg. A45
1924	Karvelas Demetrius Panagula restr	R.L. Polk Co., Inc.	

150 2ND

Year	Uses	Source	
1930	Johns Restaurant	R.L. Polk Co., Inc.	Image pg. A45

FINDINGS

152 2ND

Year	Uses	Source	
1930	Central Barber Shop	R.L. Polk Co., Inc.	Image pg. A45
	Greco Vito shoe shiner	R.L. Polk Co., Inc.	Image pg. A45
1924	Greco Victor Jeanette shoeshine	R.L. Polk Co., Inc.	
	Sommerville Frazier cigars	R.L. Polk Co., Inc.	
	WATSON & Eberman Si Watson W J Eberman barbers	R.L. Polk Co., Inc.	

156 2ND

Year	Uses	Source	
1930	Smith Jas T restr	R.L. Polk Co., Inc.	Image pg. A45

158 2ND

Year	Uses	Source	
1930	Dickey Drug Co	R.L. Polk Co., Inc.	Image pg. A45

160 2ND

Year	Uses	Source	
1930	Bell W Fred jwlr	R.L. Polk Co., Inc.	Image pg. A45
	Smith Jas C restr	R.L. Polk Co., Inc.	Image pg. A45

162 2ND

Year	Uses	Source	
1930	Stewart Martha H Mrs lodgings	R.L. Polk Co., Inc.	Image pg. A45
	Salvation Army Corps No	R.L. Polk Co., Inc.	Image pg. A45
1924	STEWART Martha	R.L. Polk Co., Inc.	
	Bible Standard F L Hornshuh publr	R.L. Polk Co., Inc.	
	ADAMS Hannah	R.L. Polk Co., Inc.	
	MORRLISON Jno	R.L. Polk Co., Inc.	
	Newman Jno	R.L. Polk Co., Inc.	
	Bible Standard Mission	R.L. Polk Co., Inc.	

164 2ND

Year	Uses	Source	
1930	Einwaller Jos baker	R.L. Polk Co., Inc.	Image pg. A45
1924	Lux Bros Meat Co M J Lux mgr	R.L. Polk Co., Inc.	

166 2ND

Year	Uses	Source	
1930	Mac Marr Stores gro	R.L. Polk Co., Inc.	Image pg. A45

FINDINGS

168 2ND

Year	Uses	Source	
1930	Rose City Cut Flower Show	R.L. Polk Co., Inc.	Image pg. A45
	J K Produce Co	R.L. Polk Co., Inc.	Image pg. A45
1924	Logus Ferdinand G Gladys restr	R.L. Polk Co., Inc.	

169 2ND

Year	Uses	Source	
1930	Wilsons Auction House furn	R.L. Polk Co., Inc.	Image pg. A45

170 2ND

Year	Uses	Source	
1930	Iwata Frank R	R.L. Polk Co., Inc.	Image pg. A45
	Laurel Hotel	R.L. Polk Co., Inc.	Image pg. A45
	Findley Wm H cigars	R.L. Polk Co., Inc.	Image pg. A45
1924	WELCH Edgar waiter	R.L. Polk Co., Inc.	
	TOWNSEND Jos H lab	R.L. Polk Co., Inc.	
	SILVER Mike cook	R.L. Polk Co., Inc.	
	Silver Con restr	R.L. Polk Co., Inc.	
	Sheldrake Jno jntr	R.L. Polk Co., Inc.	
	SHAW Wm chauf	R.L. Polk Co., Inc.	
	ROSE Edw elk Sterling Cafeteriaand Bakery	R.L. Polk Co., Inc.	
	Plattos Leon J pres Helas Recreation Club	R.L. Polk Co., Inc.	
	Olenick Vladimir lab	R.L. Polk Co., Inc.	
	Karafotias Louis elk EJefferis	R.L. Polk Co., Inc.	
	Houck J D	R.L. Polk Co., Inc.	
	Hoyt Jack M Harris&Kennison	R.L. Polk Co., Inc.	
	Nordquist Gust logger	R.L. Polk Co., Inc.	
	MICHAEL Earl jntr	R.L. Polk Co., Inc.	
	Laurel Hotel Mrs Emma Cotter mgr	R.L. Polk Co., Inc.	
	ADAMS Jas waiter	R.L. Polk Co., Inc.	
	Athanasoulis Gust clk EJefferis	R.L. Polk Co., Inc.	
	Bollinger Bish barber	R.L. Polk Co., Inc.	
	Bopulos J Tas fruit	R.L. Polk Co., Inc.	
	Bopulos Jno elk Jas Bopulos	R.L. Polk Co., Inc.	
	Butko Bob restrwkr	R.L. Polk Co., Inc.	
	Cutor Geo	R.L. Polk Co., Inc.	
	Friichtl Chas C jntr	R.L. Polk Co., Inc.	
	DODGE Mary L Mrs mgr Hart Apts	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	Gorman Jno C cigars	R.L. Polk Co., Inc.	

171 2ND

Year	Uses	Source	
1930	Wilsons Auction House furn	R.L. Polk Co., Inc.	Image pg. A45
	Garriott L Mrs restr	R.L. Polk Co., Inc.	Image pg. A45
1924	Bressler Earl E Lena restr	R.L. Polk Co., Inc.	

172 2ND

Year	Uses	Source	
1930	Ice Machine Service Co	R.L. Polk Co., Inc.	Image pg. A45
	Logus F G restr	R.L. Polk Co., Inc.	Image pg. A45
	Rose City Candy Shop	R.L. Polk Co., Inc.	Image pg. A45
1924	DAVIS Clarence N Bella meats	R.L. Polk Co., Inc.	

173 2ND

Year	Uses	Source	
1930	Palace Grocery	R.L. Polk Co., Inc.	Image pg. A45

174 2ND

Year	Uses	Source	
1930	Mosler Bakeries Inc br	R.L. Polk Co., Inc.	Image pg. A45
	Weiss Bros delicatessen	R.L. Polk Co., Inc.	Image pg. A45

176 2ND

Year	Uses	Source	
1924	Weygandt Lisle Z Bertha conf	R.L. Polk Co., Inc.	

178 2ND

Year	Uses	Source	
1924	Weiss Bros G E and A L meats	R.L. Polk Co., Inc.	

182 2ND

Year	Uses	Source	
1930	Langdon M S confr	R.L. Polk Co., Inc.	Image pg. A45

184 2ND

Year	Uses	Source	
1930	Pittsburgh Plate Glass Co	R.L. Polk Co., Inc.	Image pg. A45

FINDINGS

186 2ND

Year	Uses	Source	
1930	Pittsburgh Plate Glass Co	R.L. Polk Co., Inc.	Image pg. A45

187 2ND

Year	Uses	Source	
1930	Powers Furniture Co Annex	R.L. Polk Co., Inc.	Image pg. A45

188 2ND

Year	Uses	Source	
1930	Fishels Columbia Awning & Supply Co	R.L. Polk Co., Inc.	Image pg. A45
1924	COLUMBIA AWNING & SUPPLY CO Leonard Pishel Pres Mgr Manufacturers and Retailers of Awnings Tents and Camping Equipment	R.L. Polk Co., Inc.	

189 2ND

Year	Uses	Source	
1930	Powers Furniture Co Annex	R.L. Polk Co., Inc.	Image pg. A45

190 2ND

Year	Uses	Source	
1930	Columbia Tent & Awning Co	R.L. Polk Co., Inc.	Image pg. A45
	Fishels Columbia Awning & Supply Co	R.L. Polk Co., Inc.	Image pg. A45

191 2ND

Year	Uses	Source	
1930	Mc Grath Furniture Co	R.L. Polk Co., Inc.	Image pg. A45
1924	WESTERN Salvage Co MAI J Mc Grath	R.L. Polk Co., Inc.	

193 2ND

Year	Uses	Source	
1930	Korn I furn 2d hd	R.L. Polk Co., Inc.	Image pg. A45
	Hatchie Rooms	R.L. Polk Co., Inc.	Image pg. A45
1924	Beall F M	R.L. Polk Co., Inc.	
	Carlson Swan logger	R.L. Polk Co., Inc.	
	E Geo lab	R.L. Polk Co., Inc.	
	Hachiya S furn rms	R.L. Polk Co., Inc.	
	Laverty Arno H driver	R.L. Polk Co., Inc.	
	NELSON C H	R.L. Polk Co., Inc.	
	Sheffield Alf F Eliz grocer	R.L. Polk Co., Inc.	

FINDINGS

194 2ND

Year	Uses	Source	
1930	General Paint Corp	R.L. Polk Co., Inc.	Image pg. A45
	Rasmussen & Co paints	R.L. Polk Co., Inc.	Image pg. A45
	Bradley Wise Paint Co	R.L. Polk Co., Inc.	Image pg. A45
	Hill Hubbell & Co	R.L. Polk Co., Inc.	Image pg. A45
	Finch L S Chemical Corp	R.L. Polk Co., Inc.	Image pg. A45

195 2ND

Year	Uses	Source	
1930	Korn I furn 2d hd	R.L. Polk Co., Inc.	Image pg. A45

200 2ND

Year	Uses	Source	
1930	Bass Hueter Paint Co	R.L. Polk Co., Inc.	Image pg. A45

201 2ND

Year	Uses	Source	
1930	Oregon Artificial Limb Co Inc	R.L. Polk Co., Inc.	Image pg. A47
	05 Consolidated Art Co	R.L. Polk Co., Inc.	Image pg. A46

202 2ND

Year	Uses	Source	
1930	Bass Hueter Paint Co	R.L. Polk Co., Inc.	Image pg. A47

203 2ND

Year	Uses	Source	
1930	Osbourn S J furn 2d hd	R.L. Polk Co., Inc.	Image pg. A47
	Silver C E expressing	R.L. Polk Co., Inc.	Image pg. A47

206 2ND

Year	Uses	Source	
1930	07 Kelp Ore Distributor Co Inc med mfrs	R.L. Polk Co., Inc.	Image pg. A48

207 2ND

Year	Uses	Source	
1930	Parent Teachers Service Shop 2d hd gds	R.L. Polk Co., Inc.	Image pg. A49
	Tourny Apartments	R.L. Polk Co., Inc.	Image pg. A49
	Wright Edw C	R.L. Polk Co., Inc.	Image pg. A49
1924	Berry Bernice E elk Oregonian	R.L. Polk Co., Inc.	
	BERRY Louis piano fnshr	R.L. Polk Co., Inc.	
	BLOOD Timothy mach	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source
1924	BROWN Lena Mrs	R.L. Polk Co., Inc.
	Burtt Mina Mrs	R.L. Polk Co., Inc.
	CHAMBERS Ira Nora E meatctr	R.L. Polk Co., Inc.
	CHAMBERS Nora E Mrs hairdrsr OW&K	R.L. Polk Co., Inc.
	CHANDLER Frances C Mrs bkpr Denny Renton C& CCo	R.L. Polk Co., Inc.
	CHANDLER Frank H Frances C adv mgr New Grand Theatre	R.L. Polk Co., Inc.
	Dolph Lillian Mrs Tourny Apts	R.L. Polk Co., Inc.
	Ellenwood Frank A Mary lngshrmn	R.L. Polk Co., Inc.
	Exe Chas Mamie dispenser	R.L. Polk Co., Inc.
	Farrow Jno F C Myrle elk Seward Hotel	R.L. Polk Co., Inc.
	Friichtl Raymond J driver	R.L. Polk Co., Inc.
	Frost Florence H slsn M&FCo	R.L. Polk Co., Inc.
	Graham Eliz M Mrs	R.L. Polk Co., Inc.
	Haydeen Arth mech	R.L. Polk Co., Inc.
	Hays Caroline H elk OW&K	R.L. Polk Co., Inc.
	JOHNSON Carl	R.L. Polk Co., Inc.
	Carl E printer Oregonian	R.L. Polk Co., Inc.
	Kemmer Emma Mrs	R.L. Polk Co., Inc.
	LARSON Roy wchmn	R.L. Polk Co., Inc.
	Lindsey Geo leatherwkr	R.L. Polk Co., Inc.
	Marcus Clara Mrs	R.L. Polk Co., Inc.
	Marquiss Clara Mrs	R.L. Polk Co., Inc.
	Mataranger Frances Mrs	R.L. Polk Co., Inc.
	Pengelly Russell W lab	R.L. Polk Co., Inc.
	REl 1ollie L hairdrsr OW&K	R.L. Polk Co., Inc.
	Rekdahl Martin police	R.L. Polk Co., Inc.
	Robley Fannie M Mrs proprietary medicines	R.L. Polk Co., Inc.
	Robley Robt Fannieclk MLKline Co	R.L. Polk Co., Inc.
	Tripp Fredk J restr wkr	R.L. Polk Co., Inc.
	Tripp Phil Nora barber	R.L. Polk Co., Inc.
	Weathers Sophie	R.L. Polk Co., Inc.
	WILSON Lawrence	R.L. Polk Co., Inc.
	WRIGHT Edw C Ella mgr Tourny Apts	R.L. Polk Co., Inc.
	WRIGHT Jos G wchmn	R.L. Polk Co., Inc.

FINDINGS

208 2ND

Year	Uses	Source	
1930	Oregon Sign Co Inc	R.L. Polk Co., Inc.	Image pg. A51
	Vacant	R.L. Polk Co., Inc.	Image pg. A50

209 2ND

Year	Uses	Source	
1930	Heacock Sash & Door Co	R.L. Polk Co., Inc.	Image pg. A53
	Youmans B E atty	R.L. Polk Co., Inc.	Image pg. A52
	13 Imperial Art Co	R.L. Polk Co., Inc.	Image pg. A52
1924	Allendale Jos S Lily A slsn	R.L. Polk Co., Inc.	
	Oki Furniture Co G Oki	R.L. Polk Co., Inc.	

210 2ND

Year	Uses	Source	
1930	Oregon Sign Co Inc	R.L. Polk Co., Inc.	Image pg. A53
	Oregon Neon Signs Inc	R.L. Polk Co., Inc.	Image pg. A53

211 2ND

Year	Uses	Source	
1930	Smith Susan M Mrs lodgings	R.L. Polk Co., Inc.	Image pg. A53
1924	Crossman Sami lab	R.L. Polk Co., Inc.	
	Brown Thos mason	R.L. Polk Co., Inc.	
	Enyart Anna cook	R.L. Polk Co., Inc.	
	Dorris Alice Mrs smstrs	R.L. Polk Co., Inc.	
	De Geer David lab	R.L. Polk Co., Inc.	
	Frye Fred W elec	R.L. Polk Co., Inc.	
	HARDY Mmaid	R.L. Polk Co., Inc.	
	Hoyt Lyda smstrs	R.L. Polk Co., Inc.	
	Kloss Chas	R.L. Polk Co., Inc.	
	Mauro Ermenigildo shoerepr	R.L. Polk Co., Inc.	
	OLSON Ole logger	R.L. Polk Co., Inc.	
	Rosa Chas slsn	R.L. Polk Co., Inc.	
	Strauch Ernest cook	R.L. Polk Co., Inc.	
	TRUSTY Elmer A Susie granitectr	R.L. Polk Co., Inc.	

212 2ND

Year	Uses	Source	
1930	14 United American Press printers	R.L. Polk Co., Inc.	Image pg. A53
	United American	R.L. Polk Co., Inc.	Image pg. A53

FINDINGS

214 2ND

Year	Uses	Source	
1930	Steele David E contr	R.L. Polk Co., Inc.	Image pg. A54
	Davis Henry E contr	R.L. Polk Co., Inc.	Image pg. A54
	California Plating Works	R.L. Polk Co., Inc.	Image pg. A55
1924	CALIFORNIA Plating Works A T Hawes	R.L. Polk Co., Inc.	

215 2ND

Year	Uses	Source	
1930	Heacock Sash & Door Co	R.L. Polk Co., Inc.	Image pg. A57
	17 Healy Frank V inv sec	R.L. Polk Co., Inc.	Image pg. A56
	16 Portland Americanization Bureau	R.L. Polk Co., Inc.	Image pg. A57
	Sigler B D real est appraiser	R.L. Polk Co., Inc.	Image pg. A56

216 2ND

Year	Uses	Source	
1930	Portland Dairy	R.L. Polk Co., Inc.	Image pg. A57
1924	PORTLAND Dairy S H Graham	R.L. Polk Co., Inc.	
	MORTON Auto Transfer Co W H Morton S E Graham	R.L. Polk Co., Inc.	

218 2ND

Year	Uses	Source	
1930	32 Vacant	R.L. Polk Co., Inc.	Image pg. A58

220 2ND

Year	Uses	Source	
1930	Pilkington John B nursery	R.L. Polk Co., Inc.	Image pg. A59

224 2ND

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A59

225 2ND

Year	Uses	Source	
1930	Engineer Press printers	R.L. Polk Co., Inc.	Image pg. A59
	Roper Cree Mrs china decorator	R.L. Polk Co., Inc.	Image pg. A59
	Street continued	R.L. Polk Co., Inc.	Image pg. A59
1924	Roper Cree Mrs china studio	R.L. Polk Co., Inc.	

FINDINGS

226 2ND

Year	Uses	Source	
1930	Loy John	R.L. Polk Co., Inc.	Image pg. A59

227 2ND

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A59
1924	Remaley Bridgeus E Maude books	R.L. Polk Co., Inc.	

228 2ND

Year	Uses	Source	
1930	Kenilworth Hotel	R.L. Polk Co., Inc.	Image pg. A59
	Uhl Bros Inc wall paper and paint	R.L. Polk Co., Inc.	Image pg. A59
1924	Boloff Jno	R.L. Polk Co., Inc.	
	Calesto Geo logger	R.L. Polk Co., Inc.	
	COOPER Wm G	R.L. Polk Co., Inc.	
	Grand Frank logger	R.L. Polk Co., Inc.	
	WRIGHT J W logger	R.L. Polk Co., Inc.	
	JACK Frank logger	R.L. Polk Co., Inc.	
	Kenilworth Hotel Mrs Ella Moyer	R.L. Polk Co., Inc.	
	Kirkland David carp	R.L. Polk Co., Inc.	
	Kirkland Robt carp	R.L. Polk Co., Inc.	
	MOYER Ella Mrs Kenilworth Hotel	R.L. Polk Co., Inc.	
	SHIELDS Jack	R.L. Polk Co., Inc.	
	Irving Wm clk	R.L. Polk Co., Inc.	
	Swanson Andw logger	R.L. Polk Co., Inc.	
	Sones J W logger	R.L. Polk Co., Inc.	
	SWGus logger	R.L. Polk Co., Inc.	

229 2ND

Year	Uses	Source	
1930	St Helens Rooms	R.L. Polk Co., Inc.	Image pg. A59
	Nakagawa Denzo	R.L. Polk Co., Inc.	Image pg. A59
	Thrift Barber Shop	R.L. Polk Co., Inc.	Image pg. A59
	Seid Bong Indy	R.L. Polk Co., Inc.	Image pg. A59
1924	Yezerski Chas I	R.L. Polk Co., Inc.	
	Seid Bong baths	R.L. Polk Co., Inc.	
	St RELENS HOTEML N Nunotani Comfortable and Clean Looms	R.L. Polk Co., Inc.	
	Columbia Clarence barber	R.L. Polk Co., Inc.	
	Conlon Jno J harnessmkr	R.L. Polk Co., Inc.	

FINDINGS

230 2ND

Year	Uses	Source	
1930	Uhl Bros Inc wall paper and paint	R.L. Polk Co., Inc.	Image pg. A59
1924	Loken Leo W asst mgr Uhl Bros	R.L. Polk Co., Inc.	
	UHL BROS INC C W De Hoff Xgr Wall Paper Paints and Oils	R.L. Polk Co., Inc.	

231 2ND

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A59

232 2ND

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A59
	Valley Hotel	R.L. Polk Co., Inc.	Image pg. A59
1924	Wintermute Frank clk Valley Hotel	R.L. Polk Co., Inc.	
	Willey Geo A eng	R.L. Polk Co., Inc.	
	WILLIAMS Harry dispenser	R.L. Polk Co., Inc.	
	Welker Wim logger	R.L. Polk Co., Inc.	
	Valley Hotel J L Dernbach	R.L. Polk Co., Inc.	
	UNDERWOOD Park C atndt USVeterans Hosp	R.L. Polk Co., Inc.	
	Schwartz Chas logger	R.L. Polk Co., Inc.	
	Ring Ernest W Lucille platformmn Am RY Exp	R.L. Polk Co., Inc.	
	Prohaska Cyril J	R.L. Polk Co., Inc.	
	PETERSON Robt logger	R.L. Polk Co., Inc.	
	Morrison Donk llpstr	R.L. Polk Co., Inc.	
	Howorth Saml elk	R.L. Polk Co., Inc.	
	HOGAN Richd M Jennie Hawes&Hogan	R.L. Polk Co., Inc.	
	BOWEN Lee Mrs waiter	R.L. Polk Co., Inc.	
	DAVIS Lester	R.L. Polk Co., Inc.	
	Des Forges Wm H elk Kelly&Stovall	R.L. Polk Co., Inc.	
	DONAHUE W B slsn	R.L. Polk Co., Inc.	
	EVANS Philip T eng	R.L. Polk Co., Inc.	
	Hibbard Harry logger	R.L. Polk Co., Inc.	
	Hiett Chas E brkmn	R.L. Polk Co., Inc.	
	Zankick Pete restrwkr	R.L. Polk Co., Inc.	
	Ziemer Louis B dep State Dairy&Food Comn	R.L. Polk Co., Inc.	

FINDINGS

233 2ND

Year	Uses	Source	
1930	Moy Back Hin consul	R.L. Polk Co., Inc.	Image pg. A59
	Chinese Consulate	R.L. Polk Co., Inc.	Image pg. A59
	Twin Wo Co oriental gds	R.L. Polk Co., Inc.	Image pg. A59
1924	Twin Wo Co Chinese mdse	R.L. Polk Co., Inc.	
	MOYT Pearl stng Eastern Trading Co	R.L. Polk Co., Inc.	
	MOY JAMES K Salesman Eastern Trading Co	R.L. Polk Co., Inc.	
	MOY BACK HIN Un Lg Shee Chinese Consul and Prop Twin Wo Co	R.L. Polk Co., Inc.	
	MOY Don W clk Eastern Trading Co	R.L. Polk Co., Inc.	
	MOY Helen bkpr Eastern Trading Co	R.L. Polk Co., Inc.	

234 2ND

Year	Uses	Source	
1930	Swiss Tailors & Cleaners	R.L. Polk Co., Inc.	Image pg. A59
1924	Trachsel Fred Frieda M tailor	R.L. Polk Co., Inc.	
	Rosenfeld Fannie B smstrs	R.L. Polk Co., Inc.	

235 2ND

Year	Uses	Source	
1930	Myers & Son Garage	R.L. Polk Co., Inc.	Image pg. A59
1924	CEINTRAL Garage Albt La Pore mgr	R.L. Polk Co., Inc.	

242 2ND

Year	Uses	Source
1924	Main St Garage Jas Chikos l M F Butler	R.L. Polk Co., Inc.

248 2ND

Year	Uses	Source	
1930	Lindquist Hotel	R.L. Polk Co., Inc.	Image pg. A59
	Vacant	R.L. Polk Co., Inc.	Image pg. A59
1924	LINQUIST HOTEL Frank Karanishi	R.L. Polk Co., Inc.	
	Lapas Gust restrwkr	R.L. Polk Co., Inc.	
	Karanishi Frank Koito Linquisi Hotel	R.L. Polk Co., Inc.	
	Kalias Peter mgr Or Vegetable Co	R.L. Polk Co., Inc.	
	Demas Geo J cook	R.L. Polk Co., Inc.	
	Bystrom Jno lab	R.L. Polk Co., Inc.	
	Markos Wm P cook	R.L. Polk Co., Inc.	
	NELSON Nels mach	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	Pirce Harry H lab	R.L. Polk Co., Inc.	
	Poulos Gus cook	R.L. Polk Co., Inc.	
	REYNOLDS Barney J contr dept Short Adj Co	R.L. Polk Co., Inc.	
	Strunk Jos lab	R.L. Polk Co., Inc.	
	Turpin Albt lab	R.L. Polk Co., Inc.	

249 2ND

Year	Uses	Source	
1930	Main Street Garage	R.L. Polk Co., Inc.	Image pg. A59

250 2ND

Year	Uses	Source	
1930	Otagiri Ryujiro Co importers	R.L. Polk Co., Inc.	Image pg. A59

251 2ND

Year	Uses	Source	
1924	Sands Jas waiter	R.L. Polk Co., Inc.	
	CEINTRAL Fuel Co H B Krueger	R.L. Polk Co., Inc.	

252 2ND

Year	Uses	Source	
1930	Oregon Barber College	R.L. Polk Co., Inc.	Image pg. A59
	Jakes Sandwich Shop	R.L. Polk Co., Inc.	Image pg. A59

253 2ND

Year	Uses	Source	
1930	Central Fuel Co	R.L. Polk Co., Inc.	Image pg. A59

255 2ND

Year	Uses	Source	
1924	Sholtz Jno M cigars	R.L. Polk Co., Inc.	

263 2ND

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A59

FINDINGS

2ND CORNER WASHINGTON

116 2ND CORNER WASHINGTON

Year	Uses	Source
1924	DUNHAM PRINTING CO Mrs H E and F C Dunham	R.L. Polk Co., Inc.

2ND HAND GDS FRONT

173 2ND HAND GDS FRONT

Year	Uses	Source
1924	Blank Benj Bessie	R.L. Polk Co., Inc.

2ND HD GDS FRONT

167 2ND HD GDS FRONT

Year	Uses	Source
1924	Nusbaum Marcus Adele	R.L. Polk Co., Inc.

193 2ND HD GDS FRONT

Year	Uses	Source
1924	Silverman Sa il Becky	R.L. Polk Co., Inc.

2ND HD GDS S JERSEY

108 2ND HD GDS S JERSEY

Year	Uses	Source
1924	Mc Thos J Belle	R.L. Polk Co., Inc.

2ND ST NE

100 2ND ST NE

Year	Uses	Source	
1985	Casebeer Dwight F	R. L. Polk and Co. Publishers	Image pg. A2
1980	Casebeer Dwight F	R.L. Polk Co. Publishers	Image pg. A9
1977	Casebeer Dwight F	R.L. Polk Co. Publishers	Image pg. A17
1970	Casebeer Dwight	R.L.Polk Co.	Image pg. A24
1967	CASEBEER DWIGHT	R.L.Polk Co.	Image pg. A29

125 2ND ST NE

Year	Uses	Source	
1985	Nixon Elman E	R. L. Polk and Co. Publishers	Image pg. A2

FINDINGS

Year	Uses	Source	
1980	Nixon Elmnan E	R.L. Polk Co. Publishers	Image pg. A9
1977	Nixcon Elmen E	R.L. Polk Co. Publishers	Image pg. A17

135 2ND ST NE

Year	Uses	Source	
1985	Burg Dennis R	R. L. Polk and Co. Publishers	Image pg. A2
1980	Burg Dennis R	R.L. Polk Co. Publishers	Image pg. A9
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A17

155 2ND ST NE

Year	Uses	Source	
1985	Damrill Linda J Mrs	R. L. Polk and Co. Publishers	Image pg. A2
1980	Chewning Susan	R.L. Polk Co. Publishers	Image pg. A9
1977	Hollingsworth James D	R.L. Polk Co. Publishers	Image pg. A17
1970	Fraiser Fabin G	R.L.Polk Co.	Image pg. A24
1967	YOUNG LOIS M MRS	R.L.Polk Co.	Image pg. A29

180 2ND ST NE

Year	Uses	Source	
1985	Vonderharr Roger A	R. L. Polk and Co. Publishers	Image pg. A2
1980	Vondershaar	R.L. Polk Co. Publishers	Image pg. A9
1977	Nelson Roberta A Mrs	R.L. Polk Co. Publishers	Image pg. A17
1970	Bowen Comer R	R.L.Polk Co.	Image pg. A24
1967	BOWEN COMER R a	R.L.Polk Co.	Image pg. A29

2ND ST NW

225 2ND ST NW

Year	Uses	Source	
1980	Four Wheel Drive & R V Customizers	R.L. Polk Co. Publishers	Image pg. A9

239 2ND ST NW

Year	Uses	Source	
1980	Rockwood Plmb Annex	R.L. Polk Co. Publishers	Image pg. A9

241 2ND ST NW

Year	Uses	Source	
1980	Rockwood Plmb Annex	R.L. Polk Co. Publishers	Image pg. A9

FINDINGS

245 2ND ST NW

Year	*Uses*	*Source*	
1980	Rockwood Plumbing contra	R.L. Polk Co. Publishers	Image pg. A9

2NDL

154 2NDL

Year	*Uses*	*Source*
1924	Pulos Gust Panayiota shoe repr	R.L. Polk Co., Inc.

2TH

103 2TH

Year	*Uses*	*Source*
1924	POPE N C	R.L. Polk Co., Inc.

3ERTHA CAR REPR

1 3ERTHA CAR REPR

Year	*Uses*	*Source*
1924	BEAVER Jay B	R.L. Polk Co., Inc.

3RD

1 3RD

Year	*Uses*	*Source*	
1930	Callahan F J meats	R.L. Polk Co., Inc.	Image pg. A60

3 3RD

Year	*Uses*	*Source*	
1930	D Contd	R.L. Polk Co., Inc.	Image pg. A110
	Abington Bldg Contd	R.L. Polk Co., Inc.	Image pg. A109
	D Contd	R.L. Polk Co., Inc.	Image pg. A109
	Worcester Bldg Contd	R.L. Polk Co., Inc.	Image pg. A108
	D Contd	R.L. Polk Co., Inc.	Image pg. A108

6 3RD

Year	*Uses*	*Source*
1924	LEE Thos H restr	R.L. Polk Co., Inc.

FINDINGS

12 3RD

Year	Uses	Source	
1924	UNION Theatre I L Cohen	R.L. Polk Co., Inc.	

28 3RD

Year	Uses	Source	
1930	Spar The restr	R.L. Polk Co., Inc.	Image pg. A107

30 3RD

Year	Uses	Source	
1930	Spar The restr	R.L. Polk Co., Inc.	Image pg. A111

32 3RD

Year	Uses	Source	
1930	Oasis Stage Terminal Inc	R.L. Polk Co., Inc.	Image pg. A111

33 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A111

35 3RD

Year	Uses	Source	
1930	Abramson Israel tlr	R.L. Polk Co., Inc.	Image pg. A111

39 3RD

Year	Uses	Source	
1930	Barell Max clothing	R.L. Polk Co., Inc.	Image pg. A111
1924	Barell Max Goldie clothing	R.L. Polk Co., Inc.	

40 3RD

Year	Uses	Source	
1930	Peoples Loan Office	R.L. Polk Co., Inc.	Image pg. A111
1924	Holzman Bros H H and M L pawnbrokers	R.L. Polk Co., Inc.	

41 3RD

Year	Uses	Source	
1930	Reliable Shoe Store	R.L. Polk Co., Inc.	Image pg. A111

42 3RD

Year	Uses	Source	
1930	Liberty Barber Shop	R.L. Polk Co., Inc.	Image pg. A111
	Burger Hardware Co	R.L. Polk Co., Inc.	Image pg. A111

FINDINGS

Year	Uses	Source	
1924	BURGERIhardware Co N L Burger Mrs S F and Hians Walters	R.L. Polk Co., Inc.	
	Atlantic Oil Co Jno Leel mgr	R.L. Polk Co., Inc.	

43 3RD

Year	Uses	Source	
1930	Schwabe Otto P chiropodist	R.L. Polk Co., Inc.	Image pg. A111
1924	Schwabe Otto P Anna barber	R.L. Polk Co., Inc.	

44 3RD

Year	Uses	Source	
1930	Hop Lee Co	R.L. Polk Co., Inc.	Image pg. A111
	Lind Hotel	R.L. Polk Co., Inc.	Image pg. A111
	Nunotani N	R.L. Polk Co., Inc.	Image pg. A111
	Goldbaum P clothing	R.L. Polk Co., Inc.	Image pg. A111
1924	Kilgour Alex recruiting sgt USARecruiting Ofc	R.L. Polk Co., Inc.	
	Kuse Jos elk Lind Hotel	R.L. Polk Co., Inc.	
	Lind Hotel Mrs Eva and J S Silverman	R.L. Polk Co., Inc.	
	Hop Lee Co Low Yuen Sic Wah Low mgr tailors	R.L. Polk Co., Inc.	
	DA Jefferson clk Lind Hotel	R.L. Polk Co., Inc.	
	Angel Willis B Ruby recruiting sgt USA Recru ting Ofc	R.L. Polk Co., Inc.	
	Horit Geo W caterer	R.L. Polk Co., Inc.	
	Sic Wah Low Leone C mgr Hop Lee Co	R.L. Polk Co., Inc.	

45 3RD

Year	Uses	Source	
1930	Multnomah Hotel Barber Shop	R.L. Polk Co., Inc.	Image pg. A111
1924	MULTNOMA Hotel Pharmacy J S Chybke	R.L. Polk Co., Inc.	

46 3RD

Year	Uses	Source	
1930	Northwestern Bakery & Lunch	R.L. Polk Co., Inc.	Image pg. A111
1924	Goldbaum Pette Rebecca clothing	R.L. Polk Co., Inc.	

48 3RD

Year	Uses	Source	
1924	AVERY & CO Richard H Xriauf Hardware Tools and Cutlery	R.L. Polk Co., Inc.	

FINDINGS

49 3RD

Year	Uses	Source	
1930	Western Union Telegraph Co br	R.L. Polk Co., Inc.	Image pg. A111
1924	Barell Mayer I Rebecca clothing	R.L. Polk Co., Inc.	

50 3RD

Year	Uses	Source	
1930	Sigell Nathan clothing	R.L. Polk Co., Inc.	Image pg. A111
	London Co cigars	R.L. Polk Co., Inc.	Image pg. A111
1924	Sigell Nathan Mary clothing	R.L. Polk Co., Inc.	
	Wonderly Willie mens furngs	R.L. Polk Co., Inc.	

51 3RD

Year	Uses	Source	
1930	Christian Science Reading Room	R.L. Polk Co., Inc.	Image pg. A111
1924	Matilla Sanford mech	R.L. Polk Co., Inc.	

52 3RD

Year	Uses	Source	
1930	Acme Swenson Employment Office	R.L. Polk Co., Inc.	Image pg. A111
	Porter Hotel	R.L. Polk Co., Inc.	Image pg. A111
	Hatsukami Shiyoji	R.L. Polk Co., Inc.	Image pg. A111
	Modern Barber College br	R.L. Polk Co., Inc.	Image pg. A111
1924	PORTER Hotel S Nii furn rms	R.L. Polk Co., Inc.	
	Halatchis Gus restr	R.L. Polk Co., Inc.	
	Nii S Porter Hotel	R.L. Polk Co., Inc.	
	BENNETT Harry restr wkr	R.L. Polk Co., Inc.	

53 3RD

Year	Uses	Source	
1930	Simmons H W restr	R.L. Polk Co., Inc.	Image pg. A111

54 3RD

Year	Uses	Source	
1930	Oregon Exchange Store	R.L. Polk Co., Inc.	Image pg. A111
1924	Weinberg Abe clothing	R.L. Polk Co., Inc.	

55 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A111

FINDINGS

Year	Uses	Source	
1924	DULUTH SOUTH SHOBE & ATLANTIC BY W H Deacon General Agent Pasenger Dept 0 H Becker District Freight Agent	R.L. Polk Co., Inc.	
	MINNEAPOLIS ST PAUL AND SAULT STE MARIE BY Soo Line W H Deacon General Agent Passenger Dept 0 IF Becker District FPreight Agent	R.L. Polk Co., Inc.	
	SOO LINE Minneapolis St Paul and Sault Ste Marie By W H Deacon General Agent Passenger Dept 0 H Becker District Freight Agent	R.L. Polk Co., Inc.	

60 3RD

Year	Uses	Source	
1930	Perfecto Trunk Mfg Co	R.L. Polk Co., Inc.	Image pg. A111

61 3RD

Year	Uses	Source	
1930	City Loan Office pawnbrokers	R.L. Polk Co., Inc.	Image pg. A111
	Vacant	R.L. Polk Co., Inc.	Image pg. A111
1924	Aquino Antonio Enrietta barber	R.L. Polk Co., Inc.	
	Mc Arth blksmh	R.L. Polk Co., Inc.	
	Enkeles Harry Mollie pawnbroker	R.L. Polk Co., Inc.	

62 3RD

Year	Uses	Source	
1930	Shubs Loan Office pawnbrokers	R.L. Polk Co., Inc.	Image pg. A111
1924	Petigrow Pearl Mrs pawnbroker	R.L. Polk Co., Inc.	

63 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A111

64 3RD

Year	Uses	Source	
1930	Eastern Hat Factory	R.L. Polk Co., Inc.	Image pg. A111
1924	EASTERN Hat Factory Abe and Harry Gale	R.L. Polk Co., Inc.	

65 3RD

Year	Uses	Source	
1930	Barell M I clothing	R.L. Polk Co., Inc.	Image pg. A111

FINDINGS

66 3RD

Year	Uses	Source	
1930	Spokane Lunch card room and restr	R.L. Polk Co., Inc.	Image pg. A111
1924	JOHNSON Hjalmar B lab	R.L. Polk Co., Inc.	
	Hancock Jno Sarah cigars	R.L. Polk Co., Inc.	
	COLUMBIA Strop & Belt Works G W Priest	R.L. Polk Co., Inc.	
	Asp Charley Karna watertndr	R.L. Polk Co., Inc.	

67 3RD

Year	Uses	Source	
1930	Rosamond Hotel	R.L. Polk Co., Inc.	Image pg. A111
	Umemoto Harumi	R.L. Polk Co., Inc.	Image pg. A111
	Joes Cafeteria	R.L. Polk Co., Inc.	Image pg. A111
1924	Drullinger Geo wchmn	R.L. Polk Co., Inc.	
	WILSON Jas R Flossie restr	R.L. Polk Co., Inc.	
	Shinazawa I Rosamond Hotel	R.L. Polk Co., Inc.	
	Majestic J logger	R.L. Polk Co., Inc.	

68 3RD

Year	Uses	Source	
1930	Swire Solomon barber	R.L. Polk Co., Inc.	Image pg. A111
	Spokane Lunch ladies dining room	R.L. Polk Co., Inc.	Image pg. A111
	Huenergard Electric Co elec contrs	R.L. Polk Co., Inc.	Image pg. A111
	lobby Lobsien G A cigars	R.L. Polk Co., Inc.	Image pg. A111
	Worcester Building	R.L. Polk Co., Inc.	Image pg. A111
1924	Swire Sol Rose barber	R.L. Polk Co., Inc.	

69 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A112
1924	Junior League Shop Mrs C B Lowe sec mgr	R.L. Polk Co., Inc.	

70 3RD

Year	Uses	Source	
1930	Jaffe Jack J mens furngs	R.L. Polk Co., Inc.	Image pg. A112
1924	Co operative Clothing Co A L Obst Lloyd Morris	R.L. Polk Co., Inc.	

FINDINGS

71 3RD

Year	Uses	Source	
1930	Barnard A shoeshiner	R.L. Polk Co., Inc.	Image pg. A112
	Owl Recreation Club Lunch	R.L. Polk Co., Inc.	Image pg. A112
	Owl Recreation Club card room	R.L. Polk Co., Inc.	Image pg. A112
1924	Olson Benj millwkr	R.L. Polk Co., Inc.	
	Spokane Lunch Jno Larkin Nels Vernstrom Chas Longren	R.L. Polk Co., Inc.	

72 3RD

Year	Uses	Source	
1930	Jaffe Jack J mens furngs	R.L. Polk Co., Inc.	Image pg. A112
1924	KINNEY Wm F bagmkr	R.L. Polk Co., Inc.	

73 3RD

Year	Uses	Source	
1930	American Clothiers	R.L. Polk Co., Inc.	Image pg. A112
	Mozorosky Morris shoe repr	R.L. Polk Co., Inc.	Image pg. A112

74 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A112

75 3RD

Year	Uses	Source	
1930	Baker Drug Co	R.L. Polk Co., Inc.	Image pg. A112

76 3RD

Year	Uses	Source	
1930	Barnes Chain Stores	R.L. Polk Co., Inc.	Image pg. A112
1924	WESTERN UNION TELEGRAPH CO Branch S Jones Mgr Wm A Bobb Conmmnercial Agent	R.L. Polk Co., Inc.	

80 3RD

Year	Uses	Source	
1930	Portland Outdoor Store mens furngs	R.L. Polk Co., Inc.	Image pg. A112

82 3RD

Year	Uses	Source
1924	Pustinen Ivar Minnie barber	R.L. Polk Co., Inc.

FINDINGS

83 3RD

Year	Uses	Source	
1930	Walther M G mfrs agt	R.L. Polk Co., Inc.	Image pg. A112
	Bracher Timber Co	R.L. Polk Co., Inc.	Image pg. A112
	03 Howard Hardy O whol silks	R.L. Polk Co., Inc.	Image pg. A112
	12 Steinhart Leon H mfrs agt	R.L. Polk Co., Inc.	Image pg. A112
	New York Shoe Repair	R.L. Polk Co., Inc.	Image pg. A112
	83 Bowmans Dan Moyer Clothing Co	R.L. Polk Co., Inc.	Image pg. A112
	Sherlock Building	R.L. Polk Co., Inc.	Image pg. A112
	08 Page Wilmer L ins	R.L. Polk Co., Inc.	Image pg. A112
	Vacant	R.L. Polk Co., Inc.	Image pg. A112
	Commercial Review trade pub	R.L. Polk Co., Inc.	Image pg. A112
	Hart Steph mtge loans	R.L. Polk Co., Inc.	Image pg. A112
	Torgler F W real est	R.L. Polk Co., Inc.	Image pg. A112

84 3RD

Year	Uses	Source	
1930	Star Loan Office	R.L. Polk Co., Inc.	Image pg. A112

85 3RD

Year	Uses	Source	
1930	Sichel Sig & Co cigars	R.L. Polk Co., Inc.	Image pg. A112
1924	SICHEL SIG & CO Cigars Tobacco and Smokers Articles Wholesale and Netail	R.L. Polk Co., Inc.	

86 3RD

Year	Uses	Source	
1930	Baltimore Cafeteria	R.L. Polk Co., Inc.	Image pg. A112

87 3RD

Year	Uses	Source	
1930	Hanson Map & Blue Print Co	R.L. Polk Co., Inc.	Image pg. A112
1924	WARD Earl Ruth shoemkr	R.L. Polk Co., Inc.	

88 3RD

Year	Uses	Source	
1930	Kaufman I hat mfr	R.L. Polk Co., Inc.	Image pg. A112
	China Tea Garden restr	R.L. Polk Co., Inc.	Image pg. A112
1924	Aurin B	R.L. Polk Co., Inc.	
	Kaufman Isadore Paulina hat mfr	R.L. Polk Co., Inc.	

FINDINGS

90 3RD

Year	Uses	Source	
1930	Security Loan Office	R.L. Polk Co., Inc.	Image pg. A112
1924	Garfinkle Benj Sarah pawnbroker	R.L. Polk Co., Inc.	

91 3RD

Year	Uses	Source	
1930	Commerce Safe Deposit and Mortgage Co	R.L. Polk Co., Inc.	Image pg. A112
	Commerce Mortgage Securities Co	R.L. Polk Co., Inc.	Image pg. A112

92 3RD

Year	Uses	Source	
1930	Eastern Luggage Shop	R.L. Polk Co., Inc.	Image pg. A112
	Paige Benj tlr	R.L. Polk Co., Inc.	Image pg. A112

93 3RD

Year	Uses	Source	
1930	Chamber of Commerce Bldg For list of tenants see 271 Stark	R.L. Polk Co., Inc.	Image pg. A112

94 3RD

Year	Uses	Source	
1930	Army & Navy Goods Store	R.L. Polk Co., Inc.	Image pg. A112

100 3RD

Year	Uses	Source	
1930	Tomoff Thos barber	R.L. Polk Co., Inc.	Image pg. A61
	Lafiura B shoeshiner	R.L. Polk Co., Inc.	Image pg. A61
	Shaw O M Mrs restr	R.L. Polk Co., Inc.	Image pg. A61
1924	Lafiura Benj shoeshine	R.L. Polk Co., Inc.	
	Berselli Andw Dina barber	R.L. Polk Co., Inc.	

101 3RD

Year	Uses	Source	
1930	Pacific Steamship Co	R.L. Polk Co., Inc.	Image pg. A61
1924	ADMIRAL ORIENTAL LINE C Ballard General Agent East Freight and Passenger Service Seattle To Japan China and The Philippines	R.L. Polk Co., Inc.	
	BLUE STAR INIE Admiral Oriental Line Agts Fast RBefrigerator Steamship Service From Pacific Coast Ports To Glasgow Liverpool Southampton and London	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	DOLLAR STEAMSHIP LINE Admiral Oriental Line Agts Intercoastal Service Trans Pacific Preight Service Between Pacific Coast Ports and Japan China and Manila Roind The	R.L. Polk Co., Inc.	
	Oxley Wm L city ticket agt Pacific SSCo	R.L. Polk Co., Inc.	
	PACIFIC STEAMSHIP COMPANY The Admiral Line T B Watson General Agent	R.L. Polk Co., Inc.	

102 3RD

Year	Uses	Source	
1930	Mc Kay Building	R.L. Polk Co., Inc.	Image pg. A61
	National Savings & Loan Assn	R.L. Polk Co., Inc.	Image pg. A61

104 3RD

Year	Uses	Source	
1930	Bialkin Nathan Clothing Co	R.L. Polk Co., Inc.	Image pg. A61
1924	Peoples Clothing Co N Bialkin	R.L. Polk Co., Inc.	

105 3RD

Year	Uses	Source	
1930	Howard H W real est	R.L. Polk Co., Inc.	Image pg. A61
1924	Cunard Steamship Co Ltd Lidell & Clarke agts	R.L. Polk Co., Inc.	
	FRENCH Line Lidell & Clarke agts	R.L. Polk Co., Inc.	
	Hamburg American Lines Lidell & Clarke agts	R.L. Polk Co., Inc.	
	JOHNSON Line Lidell & Clarke agts	R.L. Polk Co., Inc.	
	LIDELL & CLARKE Valdenar Lidell Geo G Clarke General Steamship Agents and Preight Forwarders	R.L. Polk Co., Inc.	
	MAin Na igation Co Lidell & Clarke agts	R.L. Polk Co., Inc.	
	NIPPON Yusen Kaisha Lidell & Clarke agts	R.L. Polk Co., Inc.	
	NORTH German Lloyd Steamship Co Lidell & Clarke agts	R.L. Polk Co., Inc.	
	ROYAL Mail Steam Packet Lidell & Clarke agts	R.L. Polk Co., Inc.	
	Scandinavian American Line Lidell & Clarke gen agts	R.L. Polk Co., Inc.	
	Swedish American Line Lidell & Clarke genl agts	R.L. Polk Co., Inc.	
	SWEDISH Vice Consulate Valdemar Liddell vice consul	R.L. Polk Co., Inc.	
	WHITE Star Line Lidell & Clarke agts	R.L. Polk Co., Inc.	

FINDINGS

106 3RD

Year	Uses	Source	
1930	lobby Gray Benj F cigars	R.L. Polk Co., Inc.	Image pg. A61
	Abington Building	R.L. Polk Co., Inc.	Image pg. A61
	Bialkin Nathan Clothing Co	R.L. Polk Co., Inc.	Image pg. A61
1924	Abington Building	R.L. Polk Co., Inc.	

107 3RD

Year	Uses	Source	
1930	For list of tenants see 268 Stark	R.L. Polk Co., Inc.	Image pg. A62
	Yazzolino Sam shoe shiner	R.L. Polk Co., Inc.	Image pg. A62
	Railway Exchange Cigar Co	R.L. Polk Co., Inc.	Image pg. A62
	Railway Exchange Building	R.L. Polk Co., Inc.	Image pg. A62
1924	MONROE & CO Geo B Monroe Licensed Chimney Sweepers Chimney PFurnace and Boiler Cleaning Flag Poles Painted Roof and Eave Gutters Cleaned Boilers Cleaned and Washed	R.L. Polk Co., Inc.	

108 3RD

Year	Uses	Source	
1930	Union Trunk & Bag Co	R.L. Polk Co., Inc.	Image pg. A62
1924	UNION Trunk & Bag Factory R R Ganopole	R.L. Polk Co., Inc.	

109 3RD

Year	Uses	Source	
1930	Struett Louis J	R.L. Polk Co., Inc.	Image pg. A62
1924	Struett Louis J Kath tailor	R.L. Polk Co., Inc.	

110 3RD

Year	Uses	Source	
1930	Smiths Gem Shop lapidary	R.L. Polk Co., Inc.	Image pg. A62

111 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A62
1924	Jacob Annette barber supplies	R.L. Polk Co., Inc.	

112 3RD

Year	Uses	Source	
1930	Stevens Electric Store	R.L. Polk Co., Inc.	Image pg. A62

FINDINGS

114 3RD

Year	Uses	Source	
1930	Vines Harry H jwlr	R.L. Polk Co., Inc.	Image pg. A62

120 3RD

Year	Uses	Source	
1930	Century Loan & Jewelry Co pawn brokers	R.L. Polk Co., Inc.	Image pg. A62
1924	Druce Louis V Carrie M frt traf rep Canadian Natl Rys	R.L. Polk Co., Inc.	

121 3RD

Year	Uses	Source	
1930	Goodwins jwlr	R.L. Polk Co., Inc.	Image pg. A62
1924	Harbaugh Paul C Pearl jeweler	R.L. Polk Co., Inc.	

122 3RD

Year	Uses	Source	
1930	Postal Building	R.L. Polk Co., Inc.	Image pg. A62
	Anton Geo G barber	R.L. Polk Co., Inc.	Image pg. A62
	Pihas Geo hat clnr	R.L. Polk Co., Inc.	Image pg. A62
	Gamiles Gust cigars	R.L. Polk Co., Inc.	Image pg. A62
	Doane Guaranteed Typewriter Service	R.L. Polk Co., Inc.	Image pg. A62
1924	Pickwick Stage System Bollam SS Agey agts	R.L. Polk Co., Inc.	
	Bollam Steamship Agency M Bollam	R.L. Polk Co., Inc.	
	Failing Building	R.L. Polk Co., Inc.	

123 3RD

Year	Uses	Source	
1930	Levenson Shoe Repair System	R.L. Polk Co., Inc.	Image pg. A62

124 3RD

Year	Uses	Source	
1930	Fine Henry Clo Co	R.L. Polk Co., Inc.	Image pg. A62
1924	CLERICAIL PLACEMENT BURi EAU Amorette G Crossley Beliable Office Help Purnished	R.L. Polk Co., Inc.	

125 3RD

Year	Uses	Source	
1930	Miller Jacob Barber & Beauty Supply Co Inc	R.L. Polk Co., Inc.	Image pg. A62

FINDINGS

126 3RD

Year	Uses	Source	
1930	Postal Telegraph Cable Co	R.L. Polk Co., Inc.	Image pg. A62
1924	POSTAL TELEGRBAPH CABLE CO L L Craft Mgr	R.L. Polk Co., Inc.	

127 3RD

Year	Uses	Source	
1930	Dekum Building	R.L. Polk Co., Inc.	Image pg. A62

128 3RD

Year	Uses	Source	
1930	Portland Cafeteria	R.L. Polk Co., Inc.	Image pg. A62
1924	HOUSE E RESTAURANT THE E: W Feldman Ernest House Open Day and Night Established 1882	R.L. Polk Co., Inc.	
	JACOBS Wm Mattie shoemkr	R.L. Polk Co., Inc.	

129 3RD

Year	Uses	Source	
1930	Sealy Dresser Co Inc gro	R.L. Polk Co., Inc.	Image pg. A62
1924	CHURCH AT POBTLAND THE Dr John G ILake Overseer	R.L. Polk Co., Inc.	

130 3RD

Year	Uses	Source	
1930	Reliable Loan Office	R.L. Polk Co., Inc.	Image pg. A62
	Hermann Fred cigars	R.L. Polk Co., Inc.	Image pg. A62
1924	DAVIS & Mullin G T Davis R L Mullin barbers	R.L. Polk Co., Inc.	
	Sadis Saml Vida shoeshine	R.L. Polk Co., Inc.	
	Sadis Raymond shoeshine	R.L. Polk Co., Inc.	
	Holzman Isaac B	R.L. Polk Co., Inc.	
	Gorman Jno C cigars	R.L. Polk Co., Inc.	

131 3RD

Year	Uses	Source	
1930	Hayes & Bellinger furn	R.L. Polk Co., Inc.	Image pg. A63
	Ellsworth Robt C chiropractor	R.L. Polk Co., Inc.	Image pg. A63
	Goldsteins Inc clo mfrs	R.L. Polk Co., Inc.	Image pg. A63
1924	UPSTAIRS FURNITURBE STOBE THE H L mlake Pres J C Foley Sc Treas	R.L. Polk Co., Inc.	
	Nautical School L 0 l Hammarstrom master mariner	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	Hamilton Building	R.L. Polk Co., Inc.	
	Lurie Max Goldstein Suit Mfrs Hamilton Bldg	R.L. Polk Co., Inc.	

132 3RD

Year	Uses	Source	
1930	Western Union Telegraph Co br	R.L. Polk Co., Inc.	Image pg. A63
	Panama Building	R.L. Polk Co., Inc.	Image pg. A63
	lobby Courts Jas J cigars	R.L. Polk Co., Inc.	Image pg. A63
	mezzanine U S Navy Recruiting Station	R.L. Polk Co., Inc.	Image pg. A63
	Mellish Fred dentist	R.L. Polk Co., Inc.	Image pg. A63
	Crescent Hair Growers & Beauty Parlors	R.L. Polk Co., Inc.	Image pg. A63
1924	SIGEI S S SEWING MACHINE CO G L Sigel Agents for Singer Sewing Machines	R.L. Polk Co., Inc.	
	SINGER SEWING MACHINE STOBE G L Sigel Agent Needles Parts and Repairs for All Makes of Machines Machines for Bent	R.L. Polk Co., Inc.	
	SANBORNS HEMSTITCHING SHOP B P Sanborn Hemstitching Pleating Buttons Covered Rope Stitching Braiding Button Holes	R.L. Polk Co., Inc.	
	Panama Building	R.L. Polk Co., Inc.	

133 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A63

134 3RD

Year	Uses	Source	
1930	Boston Shoe Shop	R.L. Polk Co., Inc.	Image pg. A63

135 3RD

Year	Uses	Source	
1930	Betta Tone Radio Co	R.L. Polk Co., Inc.	Image pg. A63

140 3RD

Year	Uses	Source	
1930	Allyns Dyeing & Cleaning Establishment br	R.L. Polk Co., Inc.	Image pg. A63

142 3RD

Year	Uses	Source	
1930	Acme White Lead & Color Works	R.L. Polk Co., Inc.	Image pg. A63

Year	Uses	Source	
1924	ACME WHITE ILEAD & COLOR WORKS Geo F Daley Mgr Acme Quality Paints Enamanels Stains Varnishes Etc Wholesale and Retail	R.L. Polk Co., Inc.	

143 3RD

Year	Uses	Source	
1930	Miller Clothing Co	R.L. Polk Co., Inc.	Image pg. A63
1924	MILLER Clothing Co A E Miller	R.L. Polk Co., Inc.	

144 3RD

Year	Uses	Source	
1930	Garbarino Arighi	R.L. Polk Co., Inc.	Image pg. A63
	Marracci & Co gro	R.L. Polk Co., Inc.	Image pg. A63
1924	BUDEILMAN JOHN CO J M Budelman Pres Mgr Distributors K e y s t o n e Paints and Varnishes Hardware and Sporting Goods	R.L. Polk Co., Inc.	

145 3RD

Year	Uses	Source	
1930	Sowell Studio photog	R.L. Polk Co., Inc.	Image pg. A63
1924	CLARK Ash Florence billiards	R.L. Polk Co., Inc.	

146 3RD

Year	Uses	Source	
1930	Colonial Bake Shop baker and restr	R.L. Polk Co., Inc.	Image pg. A63

147 3RD

Year	Uses	Source	
1930	lobby Schenk Geo barber	R.L. Polk Co., Inc.	Image pg. A63
	Sam Geo shoe shiner	R.L. Polk Co., Inc.	Image pg. A63
	Alisky Building	R.L. Polk Co., Inc.	Image pg. A63
	Reingolds Jewelers	R.L. Polk Co., Inc.	Image pg. A63
1924	Reingolds Jewelers Ben Jr & Gail Reingold	R.L. Polk Co., Inc.	
	Alisky Building	R.L. Polk Co., Inc.	

148 3RD

Year	Uses	Source	
1930	Economy Shoe Store	R.L. Polk Co., Inc.	Image pg. A63

FINDINGS

149 3RD

Year	Uses	Source	
1930	Gallen Kamps shoes	R.L. Polk Co., Inc.	Image pg. A63
1924	Brown Harry A Rose jeweler	R.L. Polk Co., Inc.	

150 3RD

Year	Uses	Source	
1930	Jensen Knit Wear	R.L. Polk Co., Inc.	Image pg. A63
1924	and	R.L. Polk Co., Inc.	
	PORTLAND KNITTING CO INC Gloves Sweaters Hosiery and Jantzen Bathing Suits	R.L. Polk Co., Inc.	

151 3RD

Year	Uses	Source	
1930	Oregon Hardware Co	R.L. Polk Co., Inc.	Image pg. A63
1924	Vidgoff & Stern J Vidgoff S E Stern mens furngs	R.L. Polk Co., Inc.	

153 3RD

Year	Uses	Source	
1930	Blooms Fit Rite Shoe Stores	R.L. Polk Co., Inc.	Image pg. A63

155 3RD

Year	Uses	Source	
1930	Blee Bessie Mrs womens clo	R.L. Polk Co., Inc.	Image pg. A63

160 3RD

Year	Uses	Source	
1930	Roberts Bros dry gds	R.L. Polk Co., Inc.	Image pg. A63

164 3RD

Year	Uses	Source	
1930	d fl Butterfield Bros whol jwlrs and opticians	R.L. Polk Co., Inc.	Image pg. A63
	Mohawk Building	R.L. Polk Co., Inc.	Image pg. A63
1924	Mohawk Building	R.L. Polk Co., Inc.	

165 3RD

Year	Uses	Source	
1930	Hofsteater O M photog	R.L. Polk Co., Inc.	Image pg. A63
	Reliable Dentists	R.L. Polk Co., Inc.	Image pg. A63
1924	Reliable Dentists JWHerns mgr	R.L. Polk Co., Inc.	

FINDINGS

Year	Uses	Source	
1924	Cambridge Building	R.L. Polk Co., Inc.	

167 3RD

Year	Uses	Source	
1930	Lunch Box Cafeteria	R.L. Polk Co., Inc.	Image pg. A63
1924	Lunch Box Cafeteria W D Roberts F J Sechtem	R.L. Polk Co., Inc.	

169 3RD

Year	Uses	Source	
1930	Federal System of Bakeries of Pacific Coast	R.L. Polk Co., Inc.	Image pg. A63

171 3RD

Year	Uses	Source	
1930	Goldies Guarantee Shoe Store	R.L. Polk Co., Inc.	Image pg. A64
	Pendleton Restaurant	R.L. Polk Co., Inc.	Image pg. A64
	Alaska Delicatessen	R.L. Polk Co., Inc.	Image pg. A64
1924	Labowitch Bros I S Labowitch dry gds	R.L. Polk Co., Inc.	
	CANNON Beach Investment Co Sarah Cohen pres	R.L. Polk Co., Inc.	
	Aspros Alex restr	R.L. Polk Co., Inc.	

173 3RD

Year	Uses	Source	
1930	Laue Davis Drug Co	R.L. Polk Co., Inc.	Image pg. A64

183 3RD

Year	Uses	Source	
1930	Cascade Lunch	R.L. Polk Co., Inc.	Image pg. A64
	Cascade Grocery	R.L. Polk Co., Inc.	Image pg. A64
1924	Herman Steve grocer	R.L. Polk Co., Inc.	
	ZUSMAN Sami A Anna lunches	R.L. Polk Co., Inc.	

185 3RD

Year	Uses	Source	
1930	Carlson Bakery Co	R.L. Polk Co., Inc.	Image pg. A64
	Butter Shop Inc	R.L. Polk Co., Inc.	Image pg. A64

187 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A64

FINDINGS

Year	Uses	Source	
1924	Callahan & Deery F J Callahan E H Deery meats	R.L. Polk Co., Inc.	

189 3RD

Year	Uses	Source	
1930	Payn Takit gro	R.L. Polk Co., Inc.	Image pg. A64
	Oregon Yeast Co bottlers supps	R.L. Polk Co., Inc.	Image pg. A64
1924	JOHNSON & Bellamy G R Johnson Ray Bellamy grocers	R.L. Polk Co., Inc.	
	Savier & Bergman G A Sahlin G A Bergman delicatessen	R.L. Polk Co., Inc.	

191 3RD

Year	Uses	Source	
1930	Shipbuilders Club card room	R.L. Polk Co., Inc.	Image pg. A64
	Bon Ton The barber	R.L. Polk Co., Inc.	Image pg. A64
1924	Celestine Pietro shoe shiner	R.L. Polk Co., Inc.	
	Wolf Frank Lona barber	R.L. Polk Co., Inc.	

193 3RD

Year	Uses	Source	
1930	Portland Hardware & Electric Co	R.L. Polk Co., Inc.	Image pg. A64

195 3RD

Year	Uses	Source	
1930	Lang F S Mfg Co furnaces	R.L. Polk Co., Inc.	Image pg. A64
1924	PORTLAND OUTFITTING CO Jacob Bromberg Xgr Ladies and Mens Wearing Apparel	R.L. Polk Co., Inc.	

201 3RD

Year	Uses	Source	
1930	Morton Roofing Co	R.L. Polk Co., Inc.	Image pg. A65
	Lawson A G real est	R.L. Polk Co., Inc.	Image pg. A66
	03 Webb S H real est	R.L. Polk Co., Inc.	Image pg. A67
	Mahoney Cusick J atty	R.L. Polk Co., Inc.	Image pg. A67
	04 Van Leeuwen Geo B naturopath	R.L. Polk Co., Inc.	Image pg. A67
	07 Semler Harry dentist	R.L. Polk Co., Inc.	Image pg. A68
	Hasson & Sons gro	R.L. Polk Co., Inc.	Image pg. A69
	Dean Rooms	R.L. Polk Co., Inc.	Image pg. A69
	Mc Nerney Bros bldg contrs	R.L. Polk Co., Inc.	Image pg. A65
	Builders Exchange of Portland	R.L. Polk Co., Inc.	Image pg. A65

FINDINGS

Year	Uses	Source	
1924	Brown Bros Haskell Brown tailors	R.L. Polk Co., Inc.	
	LARSEN Jennie furn rms	R.L. Polk Co., Inc.	
	Smith Edw	R.L. Polk Co., Inc.	

203 3RD

Year	Uses	Source	
1930	Soroko F 2d hd gds	R.L. Polk Co., Inc.	Image pg. A71
	Malt Syrup & Supply Co bottlers supp	R.L. Polk Co., Inc.	Image pg. A71
	Hovenden Geo B office	R.L. Polk Co., Inc.	Image pg. A70
1924	WOOD Robt W Eyssel artist	R.L. Polk Co., Inc.	
	Redmann Ralph artist Robt Wood	R.L. Polk Co., Inc.	

205 3RD

Year	Uses	Source	
1930	06 Jacobsen Construction Co	R.L. Polk Co., Inc.	Image pg. A72
	Roth Fredk I civ eng	R.L. Polk Co., Inc.	Image pg. A72
	06 Nudelman Bros uniform mfrs	R.L. Polk Co., Inc.	Image pg. A73
	06 Jones M A dentist	R.L. Polk Co., Inc.	Image pg. A74
	Oregon Syrup Co bottlers supp	R.L. Polk Co., Inc.	Image pg. A75
1924	REGAL Umbrella Co Mrs H M Morse	R.L. Polk Co., Inc.	

207 3RD

Year	Uses	Source	
1930	Rose City Club soft drinks	R.L. Polk Co., Inc.	Image pg. A79
	Watt Ernest P dentist	R.L. Polk Co., Inc.	Image pg. A78
	Green Hotel	R.L. Polk Co., Inc.	Image pg. A79
	Ellis John shoe shiner	R.L. Polk Co., Inc.	Image pg. A79
	Gunderson E real est	R.L. Polk Co., Inc.	Image pg. A76
	08 Kings Rheumatic Institute	R.L. Polk Co., Inc.	Image pg. A77
1924	Francine Al chauf	R.L. Polk Co., Inc.	
	Reuben Sami tmstr	R.L. Polk Co., Inc.	
	Masters Harry L Sarah Plaza Hotel	R.L. Polk Co., Inc.	
	Gladys Adam logger	R.L. Polk Co., Inc.	

209 3RD

Year	Uses	Source	
1930	Salary Loan Co	R.L. Polk Co., Inc.	Image pg. A80
	Vacant	R.L. Polk Co., Inc.	Image pg. A82
	10 Commercial Mortgage & Adjusters Co collns	R.L. Polk Co., Inc.	Image pg. A80

FINDINGS

Year	Uses	Source	
1930	Indian Motorcycle & Bicycle Co	R.L. Polk Co., Inc.	Image pg. A83
	Hudson J Nat atty	R.L. Polk Co., Inc.	Image pg. A80
	10 Vacant	R.L. Polk Co., Inc.	Image pg. A81
1924	GARNER Ray E Wing L factory rep Indian Motorcycle Co	R.L. Polk Co., Inc.	

211 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A84
	14 Peerless Dentists	R.L. Polk Co., Inc.	Image pg. A85
	12 Vacant	R.L. Polk Co., Inc.	Image pg. A86
	Shaw Amusement Service booking agts	R.L. Polk Co., Inc.	Image pg. A86
	Common Sense Foot Appliance Co ortopedic appliances	R.L. Polk Co., Inc.	Image pg. A87
	Regal Umbrella Co	R.L. Polk Co., Inc.	Image pg. A87
	Model Barber Shop	R.L. Polk Co., Inc.	Image pg. A87
	Perkel M 2d hd clo	R.L. Polk Co., Inc.	Image pg. A87
1924	Adler Benj Jennie tailor	R.L. Polk Co., Inc.	
	Barcalow Bernard M Lucile mgr Family Supply Co	R.L. Polk Co., Inc.	
	Danillos Thos shoernkr	R.L. Polk Co., Inc.	
	Family Supply Co Inc B M Barcalow mgr rubber gds	R.L. Polk Co., Inc.	
	Kersten Felix N Julia exp	R.L. Polk Co., Inc.	

213 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A89
	15 La Valley John E chiropractor	R.L. Polk Co., Inc.	Image pg. A88
	Gemmell Wm J show cards	R.L. Polk Co., Inc.	Image pg. A88

215 3RD

Year	Uses	Source	
1930	16 Beck Wm G loans	R.L. Polk Co., Inc.	Image pg. A90
	Park View Confectionery	R.L. Polk Co., Inc.	Image pg. A91
1924	Aspros Christ conf	R.L. Polk Co., Inc.	
	Koutsoulis Jas clk Chris Aspros	R.L. Polk Co., Inc.	

217 3RD

Year	Uses	Source	
1930	Peterson M W dentist	R.L. Polk Co., Inc.	Image pg. A92

FINDINGS

219 3RD

Year	Uses	Source	
1930	Rasmussen Chris P	R.L. Polk Co., Inc.	Image pg. A94
	20 Portland Roofing & Supply Co	R.L. Polk Co., Inc.	Image pg. A93

221 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A95
	Daly Edgar J real est	R.L. Polk Co., Inc.	Image pg. A96
	Damon L W mfrs agt	R.L. Polk Co., Inc.	Image pg. A95

223 3RD

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A98
	Vacant	R.L. Polk Co., Inc.	Image pg. A97
1924	Disque Chas supt Hamilton bldg	R.L. Polk Co., Inc.	

225 3RD

Year	Uses	Source	
1930	26 Detroit Graphite Co paint mfrs	R.L. Polk Co., Inc.	Image pg. A100
	28 Vacant	R.L. Polk Co., Inc.	Image pg. A100
	Shearer Fred & Sons plstr contrs	R.L. Polk Co., Inc.	Image pg. A99

227 3RD

Year	Uses	Source	
1930	Kewaunes Mfg Co	R.L. Polk Co., Inc.	Image pg. A102
	Sullivan P J mfrs agt	R.L. Polk Co., Inc.	Image pg. A102
	Medart Fred Mfg Co	R.L. Polk Co., Inc.	Image pg. A102
	Bentley Ray mfrs agt	R.L. Polk Co., Inc.	Image pg. A101
	Sherlock Wm Co owners Sherlock Bldg	R.L. Polk Co., Inc.	Image pg. A102

229 3RD

Year	Uses	Source	
1930	Hood Rubber Products Co footwear	R.L. Polk Co., Inc.	Image pg. A104
	Nash A Co Inc whol tlrs	R.L. Polk Co., Inc.	Image pg. A103
	Fulton H D mfrs agt	R.L. Polk Co., Inc.	Image pg. A104

231 3RD

Year	Uses	Source	
1930	Norton W H mfrs agt	R.L. Polk Co., Inc.	Image pg. A104

FINDINGS

233 3RD

Year	Uses	Source	
1930	Wayman Oscar R gen contr	R.L. Polk Co., Inc.	Image pg. A105
	Billups F C mfrs agt	R.L. Polk Co., Inc.	Image pg. A106

3RD NEAR SALMON

209 3RD NEAR SALMON

Year	Uses	Source
1924	INDIAN MOTORCYCLE & BICYCLE CO P J Wyatt Pres B W lice VPres B P Pinke Sec Treas Motorcycles Bicycles Accessories and Supplies	R.L. Polk Co., Inc.

213 3RD NEAR SALMON

Year	Uses	Source
1924	PARK RESTAURANT G B Poulos Prank Ootch The Place of Quality and Service Trays Sent Out	R.L. Polk Co., Inc.

3RD NW ST

26 3RD NW ST

Year	Uses	Source	
1970	Vacant	R.L.Polk Co.	Image pg. A25
1967	ROMMILLY VIOLA MRS	R.L.Polk Co.	Image pg. A30
	SANDUSKY EDITH MRS	R.L.Polk Co.	Image pg. A30
	RILEY MAMIE MRS	R.L.Polk Co.	Image pg. A30
	ALLSOP DAVID L	R.L.Polk Co.	Image pg. A30
	APARTMENTS	R.L.Polk Co.	Image pg. A30

101 3RD NW ST

Year	Uses	Source	
1967	STARK ELIZ MRS	R.L.Polk Co.	Image pg. A30

102 3RD NW ST

Year	Uses	Source	
1967	REOFERN LOTTIE MRS	R.L.Polk Co.	Image pg. A30

103 3RD NW ST

Year	Uses	Source	
1967	STEWART EMMA MRS	R.L.Polk Co.	Image pg. A30

FINDINGS

104 3RD NW ST

Year	Uses	Source	
1967	VAN VOORHEES AL	R.L.Polk Co.	Image pg. A30

105 3RD NW ST

Year	Uses	Source	
1967	LEE EARNEST R	R.L.Polk Co.	Image pg. A30

115 3RD NW ST

Year	Uses	Source	
1970	Gardner Larry	R.L.Polk Co.	Image pg. A25
1967	GRAVES MARTHA MRS	R.L.Polk Co.	Image pg. A30

125 3RD NW ST

Year	Uses	Source	
1970	No Return	R.L.Polk Co.	Image pg. A25
1967	COOK DELMER L	R.L.Polk Co.	Image pg. A30

139 3RD NW ST

Year	Uses	Source	
1970	York Francis R	R.L.Polk Co.	Image pg. A25
1967	CHILDRESS ELMER G	R.L.Polk Co.	Image pg. A30

3RD OPEN EVENINGS

193 3RD OPEN EVENINGS

Year	Uses	Source
1924	YOUNG G D & CO D G Goon MTr Dry Goods ILadies Mens and Childrens rurnishings	R.L. Polk Co., Inc.

3RD ST BET WASHINGTON

124 3RD ST BET WASHINGTON

Year	Uses	Source
1924	DOANE GUARANTEED TYPEWRITER SEBVICE J B Doane Xgr T W Hussey Poreman Rebuilt Typewriters of All Xakes Supplies and Office Equipment Office Employment Dept A G Crossle	R.L. Polk Co., Inc.

FINDINGS

3RD ST NE

15 3RD ST NE

Year	Uses	Source	
1985	Layton Janice M	R. L. Polk and Co. Publishers	Image pg. A3
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A10
1977	Field Robt E	R.L. Polk Co. Publishers	Image pg. A18

25 3RD ST NE

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A3
1980	Wilkin Richd D	R.L. Polk Co. Publishers	Image pg. A10
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A18

35 3RD ST NE

Year	Uses	Source	
1985	Lombard Mary E	R. L. Polk and Co. Publishers	Image pg. A3
1980	Newman J Harold	R.L. Polk Co. Publishers	Image pg. A10
	N E 3RD ST G Contd	R.L. Polk Co. Publishers	Image pg. A10
1977	Newman J Harold	R.L. Polk Co. Publishers	Image pg. A18
1970	Newman James H	R.L.Polk Co.	Image pg. A25
1967	NEWMAN J HAROLD	R.L.Polk Co.	Image pg. A30

130 3RD ST NE

Year	Uses	Source	
1985	Bruno Michael J	R. L. Polk and Co. Publishers	Image pg. A3
1980	Smith Glenn J	R.L. Polk Co. Publishers	Image pg. A10
1977	Hosbrook Vernon L	R.L. Polk Co. Publishers	Image pg. A18

145 3RD ST NE

Year	Uses	Source	
1985	Larsen Paul C	R. L. Polk and Co. Publishers	Image pg. A3
1980	Ryun Myrna L Mrs	R.L. Polk Co. Publishers	Image pg. A10
1977	No Return	R.L. Polk Co. Publishers	Image pg. A18

185 3RD ST NE

Year	Uses	Source	
1985	Claggett Michael E	R. L. Polk and Co. Publishers	Image pg. A3
1980	Willits Robt E	R.L. Polk Co. Publishers	Image pg. A10
1977	Willits Robt	R.L. Polk Co. Publishers	Image pg. A18

FINDINGS

3RD ST W

10 3RD ST W

Year	Uses	Source	
1985	Third & Main Hair Design	R. L. Polk and Co. Publishers	Image pg. A3
1977	Hair By Stephen barber shop	R.L. Polk Co. Publishers	Image pg. A18

16 3RD ST W

Year	Uses	Source	
1985	Accu Print By Julie	R. L. Polk and Co. Publishers	Image pg. A3
1977	Vans Copy & Printing Center	R.L. Polk Co. Publishers	Image pg. A18

20 3RD ST W

Year	Uses	Source	
1985	Dees Studio Ltd photog	R. L. Polk and Co. Publishers	Image pg. A3
	Bridal Stai	R. L. Polk and Co. Publishers	Image pg. A3
1977	Dees Studio Ltd photog	R.L. Polk Co. Publishers	Image pg. A18
	Bridal Staircase	R.L. Polk Co. Publishers	Image pg. A18

30 3RD ST W

Year	Uses	Source	
1985	Dees Studio Ltd Addtl Sp	R. L. Polk and Co. Publishers	Image pg. A3
1977	Something Special gifts	R.L. Polk Co. Publishers	Image pg. A18

51 3RD ST W

Year	Uses	Source	
1985	Vacant	R. L. Polk and Co. Publishers	Image pg. A3
1977	Franz Gresham Bakery	R.L. Polk Co. Publishers	Image pg. A18

115 3RD ST W

Year	Uses	Source	
1985	Heaton Thos A	R. L. Polk and Co. Publishers	Image pg. A3
1977	Craig Opal M Mrs	R.L. Polk Co. Publishers	Image pg. A18

125 3RD ST W

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A3
1977	Kehler Betty L Mrs	R.L. Polk Co. Publishers	Image pg. A18

139 3RD ST W

Year	Uses	Source	
1985	Vacant	R. L. Polk and Co. Publishers	Image pg. A3

FINDINGS

Year	Uses	Source	
1977	York Lilly	R.L. Polk Co. Publishers	Image pg. A18

3RD X

61 3RD X

Year	Uses	Source
1924	Stipe Staley Margt grocer	R.L. Polk Co., Inc.

66 3RD X

Year	Uses	Source
1924	Barnard Andw logger	R.L. Polk Co., Inc.

92 3RD X

Year	Uses	Source
1924	Dobie Jos farmer	R.L. Polk Co., Inc.

3TH

100 3TH

Year	Uses	Source
1924	NORTHWEST TYPESETTING CO Por the Trade B S Woolley Mgr	R.L. Polk Co., Inc.

4TH

91 4TH

Year	Uses	Source
1924	Title and Trust Bldg	R.L. Polk Co., Inc.
	MOULTON CHARLES R Asst Sec Title and Trust Co	R.L. Polk Co., Inc.
	Mortgage Guarantee Co W M Daly pres R S Howard v pres F T Griffith v pres W 0 Daly sec	R.L. Polk Co., Inc.

94 4TH

Year	Uses	Source
1924	Carls Garage C A Olsen A A Dixon	R.L. Polk Co., Inc.

95 4TH

Year	Uses	Source
1924	Leonard Arth N cigars	R.L. Polk Co., Inc.

FINDINGS

100 4TH

Year	Uses	Source	
1930	Columbia Steel & Shafting Co	R.L. Polk Co., Inc.	Image pg. A113
1924	Rex Tailoring Co Jessie EShaw	R.L. Polk Co., Inc.	

103 4TH

Year	Uses	Source	
1930	Troy Laundry Machy Co	R.L. Polk Co., Inc.	Image pg. A113

104 4TH

Year	Uses	Source
1924	JOY THE TAILOR	R.L. Polk Co., Inc.

105 4TH

Year	Uses	Source
1924	Melin & Melin A E and A H 11 soft drinks	R.L. Polk Co., Inc.

106 4TH

Year	Uses	Source	
1930	Machinery Sales Co	R.L. Polk Co., Inc.	Image pg. A113
1924	High Adelbert D firemn	R.L. Polk Co., Inc.	
	Setley Geo firemn	R.L. Polk Co., Inc.	
	Lascova Louis waiter	R.L. Polk Co., Inc.	
	Lawton Etta Mrs Winfield Hotel	R.L. Polk Co., Inc.	
	Littlefield Phyllis M housekpr	R.L. Polk Co., Inc.	
	OConnor Jno F advertising	R.L. Polk Co., Inc.	
	Qu Jas L	R.L. Polk Co., Inc.	
	JOHNSON Benj I baker	R.L. Polk Co., Inc.	
	Swift L S news dir	R.L. Polk Co., Inc.	
	Walsh Treas Everything Electrical	R.L. Polk Co., Inc.	

107 4TH

Year	Uses	Source	
1930	Elliott John C typewriters	R.L. Polk Co., Inc.	Image pg. A113
1924	Van	R.L. Polk Co., Inc.	
	Spellman Joe A Annie mens furngs	R.L. Polk Co., Inc.	
	Demetrakakes Louis Vasileke shoeshine	R.L. Polk Co., Inc.	

108 4TH

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A113

FINDINGS

Year	Uses	Source	
1924	Whitmore Leona	R.L. Polk Co., Inc.	
	Wittenstein Arth	R.L. Polk Co., Inc.	
	Mc H lab i	R.L. Polk Co., Inc.	
	Staples Fred restrwkr	R.L. Polk Co., Inc.	
	Tiedeman Wm M	R.L. Polk Co., Inc.	
	Tortonia Club Inc V Gratton pres R N Stephenson sec soft drinks	R.L. Polk Co., Inc.	
	Wentzy Leroy A Kath slsn Log Cabin Baking Co	R.L. Polk Co., Inc.	
	Keryte Vincent musician	R.L. Polk Co., Inc.	
	HUGHES J F	R.L. Polk Co., Inc.	
	Harnden Fred N surv	R.L. Polk Co., Inc.	
	GRAHAM Jno H lab	R.L. Polk Co., Inc.	
	COOK Horatio Alice E mgr New Royal Hotel	R.L. Polk Co., Inc.	
	Booher Archie furnwkr	R.L. Polk Co., Inc.	

109 4TH

Year	Uses	Source	
1930	Barnett A Co typewriters	R.L. Polk Co., Inc.	Image pg. A113
	All Makes Typewriter Co	R.L. Polk Co., Inc.	Image pg. A113
	Coburn E G Co typewriters	R.L. Polk Co., Inc.	Image pg. A113
1924	Couch Building	R.L. Polk Co., Inc.	

110 4TH

Year	Uses	Source
1924	Niedermeyer Anthony T Christine M barber	R.L. Polk Co., Inc.

111 4TH

Year	Uses	Source
1924	PENNEY J C COMPANY Earl A Ross Mgr Llargest Chain Department Store Organization	R.L. Polk Co., Inc.

112 4TH

Year	Uses	Source
1924	Soules Shoe Store Leslie Holmes mgr	R.L. Polk Co., Inc.

113 4TH

Year	Uses	Source
1924	Mc Glashan Jas E Margt billiards	R.L. Polk Co., Inc.

FINDINGS

Year	Uses	Source	
1924	Cooper Chas M Mary barber	R.L. Polk Co., Inc.	

115 4TH

Year	Uses	Source	
1930	16 Vacant	R.L. Polk Co., Inc.	Image pg. A113
1924	Rubenstein Geo Pearl optometrist	R.L. Polk Co., Inc.	

118 4TH

Year	Uses	Source	
1930	Norwegian Importing Co	R.L. Polk Co., Inc.	Image pg. A113
	Bailey Sales Co	R.L. Polk Co., Inc.	Image pg. A113

119 4TH

Year	Uses	Source	
1930	F & E Check Writer Sales Co	R.L. Polk Co., Inc.	Image pg. A113

120 4TH

Year	Uses	Source	
1930	Hardin Ezra F mdse broker	R.L. Polk Co., Inc.	Image pg. A113

121 4TH

Year	Uses	Source	
1930	Brown & Williamson Tobacco Sales Corp	R.L. Polk Co., Inc.	Image pg. A113

122 4TH

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A113

124 4TH

Year	Uses	Source	
1924	Pierson Frank J Ellen grinder	R.L. Polk Co., Inc.	
	Kemp Cutlery Co Harry Kemp Nathan Lavagette	R.L. Polk Co., Inc.	
	PENN Roland lab	R.L. Polk Co., Inc.	

125 4TH

Year	Uses	Source	
1930	Gustafson M J truck service	R.L. Polk Co., Inc.	Image pg. A113
1924	Purity Dairy Lunch FEWinters	R.L. Polk Co., Inc.	

FINDINGS

126 4TH

Year	Uses	Source	
1930	U S Intercoastal Conference insp bureau	R.L. Polk Co., Inc.	Image pg. A113

127 4TH

Year	Uses	Source	
1930	Balden F E & Co boiler contrs	R.L. Polk Co., Inc.	Image pg. A113
1924	Hochfeld & Herns Inc M L Hochfeld pres J I Herns sec treas jewelers	R.L. Polk Co., Inc.	

128 4TH

Year	Uses	Source
1924	Circle Theatre G T Woodlaw	R.L. Polk Co., Inc.
	Musicians Mutual Assn H C Banzer sec	R.L. Polk Co., Inc.

129 4TH

Year	Uses	Source
1924	WESTERN Mens Business & Social Club H Semler mgr	R.L. Polk Co., Inc.
	Cremen Building	R.L. Polk Co., Inc.
	LAKES DIVINE HEALING INSTITUTE Rev John G Lake Apostle Cremen Bldg	R.L. Polk Co., Inc.

130 4TH

Year	Uses	Source
1924	ALEXANDER Geo A Alevia St Paul Hotel	R.L. Polk Co., Inc.
	BLAIR Geo B frmn JAVan Wie Co	R.L. Polk Co., Inc.
	Dickman C A	R.L. Polk Co., Inc.
	Eyestone Theo	R.L. Polk Co., Inc.
	Gore Geo K olsn UTnited Cigar Stores Co	R.L. Polk Co., Inc.
	HICKEY Win slsn Good Housekeeping Shop	R.L. Polk Co., Inc.
	JOHNSTON W H cruiser	R.L. Polk Co., Inc.
	Lambie Albt G	R.L. Polk Co., Inc.
	Ley Jos	R.L. Polk Co., Inc.
	W A wchmn	R.L. Polk Co., Inc.
	Newton A J	R.L. Polk Co., Inc.
	Poore Howard D phys	R.L. Polk Co., Inc.
	Randall Byron E	R.L. Polk Co., Inc.
	St Paul Hotel G A Alexander	R.L. Polk Co., Inc.
	STRONG R Mrs	R.L. Polk Co., Inc.
	Woodlaw Building	R.L. Polk Co., Inc.

Year	Uses	Source
1924	Alexander Alevia Mrs prin Woodmere Sch	R.L. Polk Co., Inc.

132 4TH

Year	Uses	Source
1924	Blumenthal Reuben Celia Stern & Blumenthal mens furngs	R.L. Polk Co., Inc.

133 4TH

Year	Uses	Source
1924	Israel Jack Victoria shoe repr	R.L. Polk Co., Inc.
	Eghert Percy K Harriett barber	R.L. Polk Co., Inc.
	Bredemeier E Ada S show cards	R.L. Polk Co., Inc.
	MAYER Wm Ina billiards	R.L. Polk Co., Inc.

135 4TH

Year	Uses	Source
1924	Dubiver WANm Sarah mens furngs	R.L. Polk Co., Inc.

136 4TH

Year	Uses	Source
1924	Tiebergs H F Goldstein mgr shoes	R.L. Polk Co., Inc.

4TH BET WASHINGTON

129 4TH BET WASHINGTON

Year	Uses	Source
1924	BOSTON SHOE SHOP D Mills Mgr Womens and Mens Standard Quality Footwear at Popular Prices	R.L. Polk Co., Inc.

4TH ST NE

140 4TH ST NE

Year	Uses	Source	
1985	Mac Gregor Bridget B	R. L. Polk and Co. Publishers	Image pg. A4
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A11
1977	Simons Mary J Mrs	R.L. Polk Co. Publishers	Image pg. A19
1970	Dozier Gerald	R.L.Polk Co.	Image pg. A26
1967	DOZIER GERALD	R.L.Polk Co.	Image pg. A30

FINDINGS

CEDAR ST

110 CEDAR ST

Year	Uses	Source	
1985	U S P 0 Fairview	R. L. Polk and Co. Publishers	Image pg. A5
1980	U S P Fairview	R.L. Polk Co. Publishers	Image pg. A12
1977	U S P 0 Fairview	R.L. Polk Co. Publishers	Image pg. A20
1970	US Po	R.L.Polk Co.	Image pg. A27
1967	US PO	R.L.Polk Co.	Image pg. A31

115 CEDAR ST

Year	Uses	Source	
1985	Kallman John E	R. L. Polk and Co. Publishers	Image pg. A5
1980	Kallman John E	R.L. Polk Co. Publishers	Image pg. A12
1977	420 Dick Harriett A Mrs	R.L. Polk Co. Publishers	Image pg. A20
	Kallman John E	R.L. Polk Co. Publishers	Image pg. A20
1970	No Return	R.L.Polk Co.	Image pg. A27
1967	KALLMAN JOHN E	R.L.Polk Co.	Image pg. A31

120 CEDAR ST

Year	Uses	Source	
1985	Kirk John B	R. L. Polk and Co. Publishers	Image pg. A5
1980	No Return	R.L. Polk Co. Publishers	Image pg. A12
1970	Dick Harriett A Mrs	R.L.Polk Co.	Image pg. A27
1967	DICK HARRIETT A MRS a	R.L.Polk Co.	Image pg. A31

125 CEDAR ST

Year	Uses	Source	
1985	Handy Donald G	R. L. Polk and Co. Publishers	Image pg. A5
1980	Handy Donald G	R.L. Polk Co. Publishers	Image pg. A12
1977	Schnmoyer Ronald R	R.L. Polk Co. Publishers	Image pg. A20
1970	Handy Grace Mrs	R.L.Polk Co.	Image pg. A27
1967	HANDY GRACE MRS S	R.L.Polk Co.	Image pg. A31

135 CEDAR ST

Year	Uses	Source	
1985	Tollefson Gayle D Mrs	R. L. Polk and Co. Publishers	Image pg. A5
1980	Tollefsen Gayle D Mrs	R.L. Polk Co. Publishers	Image pg. A12
1977	Tollefsen Gayle D Mrs	R.L. Polk Co. Publishers	Image pg. A20
1970	Pilotte Armand R	R.L.Polk Co.	Image pg. A27

FINDINGS

140 CEDAR ST

Year	Uses	Source	
1985	Ruff Jerry F	R. L. Polk and Co. Publishers	Image pg. A5
1980	Ruff Jerry F	R.L. Polk Co. Publishers	Image pg. A12
1977	Ruff Jerry F	R.L. Polk Co. Publishers	Image pg. A20

150 CEDAR ST

Year	Uses	Source	
1985	Breedlove Lee L	R. L. Polk and Co. Publishers	Image pg. A5
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A12
1977	Lunceford Roger	R.L. Polk Co. Publishers	Image pg. A20
1970	Tallent Kenneth R	R.L.Polk Co.	Image pg. A27
1967	FANCHER MAUD M MRS	R.L.Polk Co.	Image pg. A31

210 CEDAR ST

Year	Uses	Source	
1985	Smith Ray A	R. L. Polk and Co. Publishers	Image pg. A5
	ASmith Jaclyn	R. L. Polk and Co. Publishers	Image pg. A5
1980	Smith Ray A	R.L. Polk Co. Publishers	Image pg. A12
1977	Smith Ray A	R.L. Polk Co. Publishers	Image pg. A20
	Wootten Jerry	R.L. Polk Co. Publishers	Image pg. A20
1970	Fouch D W	R.L.Polk Co.	Image pg. A27
	Smith Ray A	R.L.Polk Co.	Image pg. A27
1967	MOWER LUCILLE C MRS	R.L.Polk Co.	Image pg. A31

220 CEDAR ST

Year	Uses	Source	
1967	KATCHEL MARTHA B 4 RS	R.L.Polk Co.	Image pg. A31

225 CEDAR ST

Year	Uses	Source	
1985	Rice Donald L	R. L. Polk and Co. Publishers	Image pg. A5
1980	Rice Donald L	R.L. Polk Co. Publishers	Image pg. A12
1977	Nowatchik Harry R	R.L. Polk Co. Publishers	Image pg. A20
1970	Eraser Danl	R.L.Polk Co.	Image pg. A27
1967	HUGHES TROY B	R.L.Polk Co.	Image pg. A31

230 CEDAR ST

Year	Uses	Source	
1985	Johnson Harold	R. L. Polk and Co. Publishers	Image pg. A5
1980	Holland Ruth Mrs	R.L. Polk Co. Publishers	Image pg. A12

FINDINGS

Year	Uses	Source	
1977	Holland Ruth Mrs	R.L. Polk Co. Publishers	Image pg. A20
1970	Holland Ruth Mrs	R.L.Polk Co.	Image pg. A27
1967	HOLLAND RUTH MRS	R.L.Polk Co.	Image pg. A31

235 CEDAR ST

Year	Uses	Source	
1985	Cunningham Dani L	R. L. Polk and Co. Publishers	Image pg. A5
1980	Montrouil Philip	R.L. Polk Co. Publishers	Image pg. A12
1977	Betita Romeo P	R.L. Polk Co. Publishers	Image pg. A20
1970	Shaw Tom	R.L.Polk Co.	Image pg. A27
1967	FINN RAY	R.L.Polk Co.	Image pg. A31

245 CEDAR ST

Year	Uses	Source	
1985	Farmer Nancy D	R. L. Polk and Co. Publishers	Image pg. A5
1980	No Return	R.L. Polk Co. Publishers	Image pg. A12
1977	No Return	R.L. Polk Co. Publishers	Image pg. A20
1970	Britton Roger A	R.L.Polk Co.	Image pg. A27
1967	BRITTON ROGER A	R.L.Polk Co.	Image pg. A31

250 CEDAR ST

Year	Uses	Source	
1985	Bills Clifford D	R. L. Polk and Co. Publishers	Image pg. A5
1980	Bills Clifford D	R.L. Polk Co. Publishers	Image pg. A12
1970	Bills Clifford D	R.L.Polk Co.	Image pg. A27
1967	BILLS CLIFFORD D	R.L.Polk Co.	Image pg. A31

255 CEDAR ST

Year	Uses	Source	
1985	Taft Roy D	R. L. Polk and Co. Publishers	Image pg. A5
1980	Arnold David L	R.L. Polk Co. Publishers	Image pg. A12
1977	Lovett David	R.L. Polk Co. Publishers	Image pg. A20
1970	Hines M Mrs	R.L.Polk Co.	Image pg. A27
	Fouch D W	R.L.Polk Co.	Image pg. A27
1967	SMITH GARY	R.L.Polk Co.	Image pg. A31

260 CEDAR ST

Year	Uses	Source	
1977	Bills Clifford D	R.L. Polk Co. Publishers	Image pg. A20

FINDINGS

300 CEDAR ST

Year	Uses	Source	
1985	A	R. L. Polk and Co. Publishers	Image pg. A5
	Shaw Thos L	R. L. Polk and Co. Publishers	Image pg. A5
1980	Shaw Thos L	R.L. Polk Co. Publishers	Image pg. A12
1977	Shaw Those L	R.L. Polk Co. Publishers	Image pg. A20
1970	Shaw Thos L	R.L.Polk Co.	Image pg. A27
1967	SHAW THOS L	R.L.Polk Co.	Image pg. A31

305 CEDAR ST

Year	Uses	Source	
1970	Christie Charles M	R.L.Polk Co.	Image pg. A27
1967	CHRISTIE CHARLES M	R.L.Polk Co.	Image pg. A31

315 CEDAR ST

Year	Uses	Source	
1985	Partille John L	R. L. Polk and Co. Publishers	Image pg. A5
1980	Platt Robt P	R.L. Polk Co. Publishers	Image pg. A12
1977	Parker Don L	R.L. Polk Co. Publishers	Image pg. A20
1970	Parker Blayne B	R.L.Polk Co.	Image pg. A27
1967	ADAMS JOHN E	R.L.Polk Co.	Image pg. A31

320 CEDAR ST

Year	Uses	Source	
1985	Willard Matthew E	R. L. Polk and Co. Publishers	Image pg. A5
1980	Good Floyd	R.L. Polk Co. Publishers	Image pg. A12
1977	Bacos Dfai L	R.L. Polk Co. Publishers	Image pg. A20
1970	Dugan Margt	R.L.Polk Co.	Image pg. A27
1967	NELSON EDW H	R.L.Polk Co.	Image pg. A31

325 CEDAR ST

Year	Uses	Source	
1985	Michael Gary J	R. L. Polk and Co. Publishers	Image pg. A5
1980	Wi Uey Dani W	R.L. Polk Co. Publishers	Image pg. A12
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A20
1970	Brazier Arth R	R.L.Polk Co.	Image pg. A27
1967	BRAZIER ARTH R	R.L.Polk Co.	Image pg. A31

330 CEDAR ST

Year	Uses	Source
2008	DANS FISHIN MISSN ADVENTURE LLC	Cole Information Services

FINDINGS

Year	Uses	Source	
2008	DANS FISHIN MISSN ADVENTURE LLC	Cole Information Services	
1985	Wheeler Jerome T	R. L. Polk and Co. Publishers	Image pg. A5
1980	Krogstad Marilyn P Mrs	R.L. Polk Co. Publishers	Image pg. A12
1977	Krogstad Marilyn Mrs	R.L. Polk Co. Publishers	Image pg. A20
1970	Mines Woodrow W Jr	R.L.Polk Co.	Image pg. A27
1967	TODD RUBY MRS	R.L.Polk Co.	Image pg. A31

335 CEDAR ST

Year	Uses	Source	
1985	Wilson Christine M Mrs	R. L. Polk and Co. Publishers	Image pg. A5
1980	Wilson Bruce D	R.L. Polk Co. Publishers	Image pg. A12
1977	Rudig Warren M	R.L. Polk Co. Publishers	Image pg. A20
1970	Hunter John W	R.L.Polk Co.	Image pg. A27
1967	HUNTER JOHN W	R.L.Polk Co.	Image pg. A31

350 CEDAR ST

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A5
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A12
1977	Curran Dani W	R.L. Polk Co. Publishers	Image pg. A20
1970	Fouch D W	R.L.Polk Co.	Image pg. A27
	Knight Robt A	R.L.Polk Co.	Image pg. A27
1967	VACANT	R.L.Polk Co.	Image pg. A31

355 CEDAR ST

Year	Uses	Source	
2003	FAIRVIEW CONSTRUCTION	Cole Information Services	
1985	ULndberg Larry E	R. L. Polk and Co. Publishers	Image pg. A5
1980	Cruver Margt E	R.L. Polk Co. Publishers	Image pg. A12
1977	Libel Clara	R.L. Polk Co. Publishers	Image pg. A20
1970	Fouch D W	R.L.Polk Co.	Image pg. A27
	Libel Clara	R.L.Polk Co.	Image pg. A27
1967	SHEPHERD DAVID	R.L.Polk Co.	Image pg. A31

DEPOT ST

255 DEPOT ST

Year	Uses	Source
2013	WASTE WATCH	Cole Information Services
2008	LEIGHS ROOF SERVICE CO INC	Cole Information Services

FINDINGS

330 DEPOT ST

Year	Uses	Source	
1985	Jones Steven I	R. L. Polk and Co. Publishers	Image pg. A6
1980	Stowell Marion L	R.L. Polk Co. Publishers	Image pg. A13
1977	Visage Ken	R.L. Polk Co. Publishers	Image pg. A21

332 DEPOT ST

Year	Uses	Source	
1985	Lalicker Mick L	R. L. Polk and Co. Publishers	Image pg. A6
1980	Gran J K	R.L. Polk Co. Publishers	Image pg. A14
	Snyder Steven	R.L. Polk Co. Publishers	Image pg. A13
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A21

340 DEPOT ST

Year	Uses	Source	
1985	Blaylock Eldon M	R. L. Polk and Co. Publishers	Image pg. A6
1980	Sharp Keith E	R.L. Polk Co. Publishers	Image pg. A14
1977	Sharp Keith E	R.L. Polk Co. Publishers	Image pg. A21

342 DEPOT ST

Year	Uses	Source	
1985	Vacant	R. L. Polk and Co. Publishers	Image pg. A6
1980	Thompson Ohin H	R.L. Polk Co. Publishers	Image pg. A14
1977	Lowther Thos D	R.L. Polk Co. Publishers	Image pg. A21

350 DEPOT ST

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A6
1980	No Return	R.L. Polk Co. Publishers	Image pg. A14
1977	Wright Scott D	R.L. Polk Co. Publishers	Image pg. A21

352 DEPOT ST

Year	Uses	Source	
1985	Ellis Daniel J	R. L. Polk and Co. Publishers	Image pg. A6
1980	Hunphrey Tina L	R.L. Polk Co. Publishers	Image pg. A14
1977	Allen Michl L	R.L. Polk Co. Publishers	Image pg. A21

FINDINGS

MAIN

207 MAIN

Year	Uses	Source	
1930	Johnstons Tire Shop	R.L. Polk Co., Inc.	Image pg. A34

209 MAIN

Year	Uses	Source	
1930	Battery Repair Shop	R.L. Polk Co., Inc.	Image pg. A34

224 MAIN

Year	Uses	Source	
1930	Connolly & Wise plmbrs	R.L. Polk Co., Inc.	Image pg. A34

226 MAIN

Year	Uses	Source	
1930	Dads Tire Shop	R.L. Polk Co., Inc.	Image pg. A34
1924	NICHOIS ELECTRIC WORKS J E von Pingel Rewinding Specialists New and Second Hand Motors Electric Supplies	R.L. Polk Co., Inc.	

227 MAIN

Year	Uses	Source	
1930	Lee Long Indy	R.L. Polk Co., Inc.	Image pg. A34

229 MAIN

Year	Uses	Source	
1930	Valley Hotel rear entrance	R.L. Polk Co., Inc.	Image pg. A34
	Vacant	R.L. Polk Co., Inc.	Image pg. A34

231 MAIN

Year	Uses	Source	
1930	Langs H W & Son medecine mfrs	R.L. Polk Co., Inc.	Image pg. A34
1924	Lange & Son	R.L. Polk Co., Inc.	

233 MAIN

Year	Uses	Source	
1930	Lakefish Transfer Co	R.L. Polk Co., Inc.	Image pg. A34
	Jacobsen Bros 2d hd furn buyers	R.L. Polk Co., Inc.	Image pg. A34

235 MAIN

Year	Uses	Source	
1930	Bills Barber Shop	R.L. Polk Co., Inc.	Image pg. A34

FINDINGS

248 MAIN

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A34

250 MAIN

Year	Uses	Source	
1930	Northwest School Furniture Co	R.L. Polk Co., Inc.	Image pg. A34

284 MAIN

Year	Uses	Source	
1930	Wheatley Cuba School of the Dance	R.L. Polk Co., Inc.	Image pg. A34

286 MAIN

Year	Uses	Source	
1930	Dempsey Kimsey & Downs printers	R.L. Polk Co., Inc.	Image pg. A34

288 MAIN

Year	Uses	Source	
1930	Mc Elroys Spanish Ball Room	R.L. Polk Co., Inc.	Image pg. A34

305 MAIN

Year	Uses	Source	
1930	Wilson Andrew H chiropractor	R.L. Polk Co., Inc.	Image pg. A34
	Thompsons Mineral Bath Parlor	R.L. Polk Co., Inc.	Image pg. A34

310 MAIN

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A34

344 MAIN

Year	Uses	Source	
1930	General Cab Co	R.L. Polk Co., Inc.	Image pg. A34

348 MAIN

Year	Uses	Source	
1930	Kucks J Angus auto parking	R.L. Polk Co., Inc.	Image pg. A34

389 MAIN

Year	Uses	Source	
1930	Edwards Loraine M	R.L. Polk Co., Inc.	Image pg. A34
	Evans M Mrs drsmkr	R.L. Polk Co., Inc.	Image pg. A34

FINDINGS

391 MAIN

Year	Uses	Source	
1930	Vacant	R.L. Polk Co., Inc.	Image pg. A34

MAIN ST

60 MAIN ST

Year	Uses	Source	
1985	Heslin Edw H	R. L. Polk and Co. Publishers	Image pg. A7
1980	Heslin Edw H	R.L. Polk Co. Publishers	Image pg. A15
1977	Heslin Edw H	R.L. Polk Co. Publishers	Image pg. A22
1970	Heslin Ernest H	R.L.Polk Co.	Image pg. A28
	Forest Lawn Memorial Park Assn	R.L.Polk Co.	Image pg. A28
1967	HESLIN ERNEST H	R.L.Polk Co.	Image pg. A32

100 MAIN ST

Year	Uses	Source	
2003	RUTHY CATERING SERVICES INC	Cole Information Services	
	RUTHY CATERING SERVICES INC	Cole Information Services	
1985	Rees W Adelbert	R. L. Polk and Co. Publishers	Image pg. A7
1980	Rees W Adelbert	R.L. Polk Co. Publishers	Image pg. A15
1977	Rees W Adelbert	R.L. Polk Co. Publishers	Image pg. A22
1970	Rees W Adelbert	R.L.Polk Co.	Image pg. A28
1967	REES W ADELBERT	R.L.Polk Co.	Image pg. A32

110 MAIN ST

Year	Uses	Source	
1985	Lanier Clossen	R. L. Polk and Co. Publishers	Image pg. A7
1980	Lanier Clossen	R.L. Polk Co. Publishers	Image pg. A15
1977	Lanier Clossen	R.L. Polk Co. Publishers	Image pg. A22
1970	Peterson Helena Mrs	R.L.Polk Co.	Image pg. A28
1967	PETERSON HELENA MRS S	R.L.Polk Co.	Image pg. A32

120 MAIN ST

Year	Uses	Source	
1985	Me Murry Larry A	R. L. Polk and Co. Publishers	Image pg. A7
1980	Mc Murray Larry A	R.L. Polk Co. Publishers	Image pg. A15
1977	Weadt Dean	R.L. Polk Co. Publishers	Image pg. A22

FINDINGS

130 MAIN ST

Year	Uses	Source	
1985	Shearer Ronald W	R. L. Polk and Co. Publishers	Image pg. A7
1980	Shearer Ronald W	R.L. Polk Co. Publishers	Image pg. A15
1977	Shearer Ronald W	R.L. Polk Co. Publishers	Image pg. A22
1970	Shearer Ronald W	R.L.Polk Co.	Image pg. A28
1967	BEERS GLEN E	R.L.Polk Co.	Image pg. A32

200 MAIN ST

Year	Uses	Source	
1985	Hondy Philip L	R. L. Polk and Co. Publishers	Image pg. A7
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A15
1977	Buchanan Dani	R.L. Polk Co. Publishers	Image pg. A22
1970	Unger Betty J Mrs	R.L.Polk Co.	Image pg. A28
	Hull Connie A Mrs	R.L.Polk Co.	Image pg. A28
1967	UNGER BETTY J	R.L.Polk Co.	Image pg. A32
	KNOWLES ROBT R	R.L.Polk Co.	Image pg. A32

205 MAIN ST

Year	Uses	Source
1924	Van Scoyoe Walter H firemn	R.L. Polk Co., Inc.
	Bodine W A blksmh	R.L. Polk Co., Inc.
	BOYLE Jas logger	R.L. Polk Co., Inc.
	Corn Hugh G eng	R.L. Polk Co., Inc.
	Mclnnis Clara Mrs furn rms	R.L. Polk Co., Inc.
	Vanscovie Walter eng	R.L. Polk Co., Inc.

215 MAIN ST

Year	Uses	Source	
1985	Fairview Elementary School Reynold School Dist	R. L. Polk and Co. Publishers	Image pg. A7
1980	School Dist	R.L. Polk Co. Publishers	Image pg. A15
	Fairview Elementary School Reynold	R.L. Polk Co. Publishers	Image pg. A15
1977	Fairview Elementary School Reynold School Dist	R.L. Polk Co. Publishers	Image pg. A22
1970	Fairview Elementary School Reynold	R.L.Polk Co.	Image pg. A28
	School Dist	R.L.Polk Co.	Image pg. A28
1967	REYNOLD SCHOOL 01ST	R.L.Polk Co.	Image pg. A32
	FAIRVIEW ELEMENTARY SCHOOL	R.L.Polk Co.	Image pg. A32

FINDINGS

220 MAIN ST

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A7
1980	Estrada Pedro	R.L. Polk Co. Publishers	Image pg. A15
1977	Estrada Pedro	R.L. Polk Co. Publishers	Image pg. A22
1970	Estrada Pedro	R.L.Polk Co.	Image pg. A28
1967	ESTRADA PEDRO	R.L.Polk Co.	Image pg. A32

224 MAIN ST

Year	Uses	Source
1924	HILL Sterling pntr	R.L. Polk Co., Inc.
	Connolly & Wise G H Connolly C C Wise plmbrs	R.L. Polk Co., Inc.

227 MAIN ST

Year	Uses	Source
1924	LEE Long Indry	R.L. Polk Co., Inc.

231 MAIN ST

Year	Uses	Source
1924	Bornfeldt Jno clk H	R.L. Polk Co., Inc.

233 MAIN ST

Year	Uses	Source
1924	Cava Gabriel soft drinks	R.L. Polk Co., Inc.

235 MAIN ST

Year	Uses	Source
1924	Hawes & Hogan C W Hawes R M Hogan barbers	R.L. Polk Co., Inc.

240 MAIN ST

Year	Uses	Source	
1985	Culwell Gisele J Mrs	R. L. Polk and Co. Publishers	Image pg. A7
1980	Culwell Clyde W	R.L. Polk Co. Publishers	Image pg. A15
1977	Culwell Clyde W	R.L. Polk Co. Publishers	Image pg. A22
1970	Culwell Clyde W	R.L.Polk Co.	Image pg. A28
1967	CULWELL CLYDE W	R.L.Polk Co.	Image pg. A32

284 MAIN ST

Year	Uses	Source
1924	King Jas A Advertisers Art&Engraving Co	R.L. Polk Co., Inc.

FINDINGS

Year	Uses	Source	
1924	Lunceford Weltha waiter	R.L. Polk Co., Inc.	
	Yates Arth W Emma real est	R.L. Polk Co., Inc.	

300 MAIN ST

Year	Uses	Source	
1985	Tibbett Roy R	R. L. Polk and Co. Publishers	Image pg. A7
1980	Elliott Harold L	R.L. Polk Co. Publishers	Image pg. A15
1977	Slack M K	R.L. Polk Co. Publishers	Image pg. A22
1970	Jesperson Walter	R.L.Polk Co.	Image pg. A28
1967	VACANT	R.L.Polk Co.	Image pg. A32

305 MAIN ST

Year	Uses	Source	
1985	Ross Albert	R. L. Polk and Co. Publishers	Image pg. A7
1980	Johnson Carl F	R.L. Polk Co. Publishers	Image pg. A15
1977	Johnson Carl E	R.L. Polk Co. Publishers	Image pg. A22
1970	Pettigrew John W	R.L.Polk Co.	Image pg. A28
1924	THOMSON Tire Co WN T Stratton mgr	R.L. Polk Co., Inc.	
	Stratton Wim C Stratton Tire Co	R.L. Polk Co., Inc.	
	Stratton Tire Co W C Stratton	R.L. Polk Co., Inc.	
	Spring Cushion Mfg Co Inc J A La Viers pres M B Carter v pres W T Stratton sectreas	R.L. Polk Co., Inc.	

307 MAIN ST

Year	Uses	Source	
1967	RAINES JAMES T	R.L.Polk Co.	Image pg. A32

320 MAIN ST

Year	Uses	Source	
1985	Ray Clarence A	R. L. Polk and Co. Publishers	Image pg. A7
1980	Ray Clarence A	R.L. Polk Co. Publishers	Image pg. A15
1977	Ray Clarence	R.L. Polk Co. Publishers	Image pg. A22
1970	Wooten Keith	R.L.Polk Co.	Image pg. A28
1967	WESTLAKE JACK V	R.L.Polk Co.	Image pg. A32

325 MAIN ST

Year	Uses	Source	
1985	Rohman Adlor A	R. L. Polk and Co. Publishers	Image pg. A7
1980	Rohman Adlor A	R.L. Polk Co. Publishers	Image pg. A15
1977	Robmajn Adlor A	R.L. Polk Co. Publishers	Image pg. A22

FINDINGS

Year	Uses	Source	
1970	Rohman Adlor A	R.L.Polk Co.	Image pg. A28
1967	ROHMAN ADLOR A	R.L.Polk Co.	Image pg. A32

328 MAIN ST

Year	Uses	Source
1924	BROWN Martin jeweler	R.L. Polk Co., Inc.
	Couch Geo E Mayme barber Murphy Bros	R.L. Polk Co., Inc.
	Couch Gertrude stdt	R.L. Polk Co., Inc.
	Cormick MIayme Mrs fur rms	R.L. Polk Co., Inc.
	Dale X J elk	R.L. Polk Co., Inc.
	Dillon Gladys Mrs	R.L. Polk Co., Inc.
	Gillett C H slsn	R.L. Polk Co., Inc.
	Lee lab	R.L. Polk Co., Inc.
	Pratt Frank Alameda waiter	R.L. Polk Co., Inc.
	Roy Maude brickmkr	R.L. Polk Co., Inc.

330 MAIN ST

Year	Uses	Source	
1985	Gibson Donald	R. L. Polk and Co. Publishers	Image pg. A7
1980	Lindroth Vina Mrs	R.L. Polk Co. Publishers	Image pg. A15
1977	Lindroth Vin	R.L. Polk Co. Publishers	Image pg. A22
1970	Stanton Floyd H	R.L.Polk Co.	Image pg. A28
1967	STANTON FLOYD H	R.L.Polk Co.	Image pg. A32

345 MAIN ST

Year	Uses	Source	
1985	Martin Larry L	R. L. Polk and Co. Publishers	Image pg. A7
1980	Anderson Geo G	R.L. Polk Co. Publishers	Image pg. A15
1977	Anderson Geo G	R.L. Polk Co. Publishers	Image pg. A22
1970	Branze M E Mrs	R.L.Polk Co.	Image pg. A28
1967	NO RETURN	R.L.Polk Co.	Image pg. A32

347 MAIN ST

Year	Uses	Source
1924	Egelston Leota	R.L. Polk Co., Inc.

348 MAIN ST

Year	Uses	Source
1924	Akiyama T S R Kohara & Co	R.L. Polk Co., Inc.
	Okiyama Roy mgr RKohara&Co	R.L. Polk Co., Inc.

FINDINGS

350 MAIN ST

Year	Uses	Source	
1985	Bailey Ann Mrs	R. L. Polk and Co. Publishers	Image pg. A7
1980	Bailey James	R.L. Polk Co. Publishers	Image pg. A15
1977	Wright Steven	R.L. Polk Co. Publishers	Image pg. A22
1970	Mewing Earl J	R.L.Polk Co.	Image pg. A28
1967	DETHERAGE ORVILLE J	R.L.Polk Co.	Image pg. A32

355 MAIN ST

Year	Uses	Source	
1985	Mc Gill Harvey C	R. L. Polk and Co. Publishers	Image pg. A7
1980	Bard Larry	R.L. Polk Co. Publishers	Image pg. A15
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A22
1970	School Dist	R.L.Polk Co.	Image pg. A28
	Seward Roberta	R.L.Polk Co.	Image pg. A28
1967	NO RETURN	R.L.Polk Co.	Image pg. A32

389 MAIN ST

Year	Uses	Source
1924	Hansson Clara Mrs	R.L. Polk Co., Inc.
	Held Jno J uphlstr	R.L. Polk Co., Inc.
	JACKSON Blanche Mrs	R.L. Polk Co., Inc.
	JACKSON E T jntr	R.L. Polk Co., Inc.

391 MAIN ST

Year	Uses	Source
1924	Dieck Robt G Caroline H civ eng	R.L. Polk Co., Inc.

400 MAIN ST

Year	Uses	Source	
1985	Jenkins Orlo P	R. L. Polk and Co. Publishers	Image pg. A7
1980	Jenkins Orlo P	R.L. Polk Co. Publishers	Image pg. A15
1977	Jenkins Orl P	R.L. Polk Co. Publishers	Image pg. A22
1970	Jenkins Orlo P	R.L.Polk Co.	Image pg. A28
1967	JENKINS ORLO P	R.L.Polk Co.	Image pg. A32

SW CEDAR ST

347 SW CEDAR ST

Year	Uses	Source	
1965	RHOOE EDELTRAUT	R.L.Polk Co.	Image pg. A33

FINDINGS

Year	Uses	Source	
1965	CEDAR CREST APARTMENTS	R.L.Polk Co.	Image pg. A33

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
225 Main Street	1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1 3ERTHA CAR REPR	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
1 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
10 3RD ST W	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
100 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
100 2ND ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
100 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
100 3TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
100 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
100 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
100 MAIN ST	2013, 2008, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
101 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
101 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
101 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
101 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
102 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
102 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
102 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
103 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
103 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
103 2TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
103 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
103 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
104 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
104 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
104 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
104 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
104 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
105 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
105 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
105 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
105 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
105 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
106 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
106 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
106 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
106 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
107 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
107 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
107 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
107 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935

FINDINGS

Address Researched	Address Not Identified in Research Source
108 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
108 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
108 2ND HD GDS S JERSEY	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
108 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
108 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
109 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
109 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
109 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
109 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
11 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
11 1ST MORRIS	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
110 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
110 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
110 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
110 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
110 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
110 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
111 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
111 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
111 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
112 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
112 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
112 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
113 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935

FINDINGS

Address Researched	Address Not Identified in Research Source
113 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
114 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
114 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
115 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
115 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
115 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
115 3RD ST W	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
115 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
115 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
116 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
116 2ND CORNER WASHINGTON	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
117 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
118 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
119 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
12 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
120 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
120 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
120 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
120 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
120 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
120 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
121 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
121 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
122 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
122 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
122 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
123 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
123 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
124 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
124 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
124 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
124 3RD ST BET WASHINGTON	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
124 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
125 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
125 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
125 2ND ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
125 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
125 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
125 3RD ST W	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
125 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
125 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
126 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
126 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
126 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
126 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
127 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
127 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
127 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
127 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
128 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
128 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
128 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
128 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
129 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
129 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
129 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
129 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
129 4TH BET WASHINGTON	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
130 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
130 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
130 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
130 3RD ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
130 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
130 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
131 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
131 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
131 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
132 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
132 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
132 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
133 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
133 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
133 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
133 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
134 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
134 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
134 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
135 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
135 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
135 2ND ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
135 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
135 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
135 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
136 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
139 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
139 3RD ST W	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
140 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
140 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
140 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
140 4TH ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
140 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
141 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
142 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
142 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
142 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
143 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
143 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
144 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
144 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
144 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
145 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
145 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
145 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
145 3RD ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
146 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
146 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
146 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
147 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
147 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
147 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
148 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
148 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
148 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
149 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
149 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
149 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
15 3RD ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
150 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
150 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
150 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935

FINDINGS

Address Researched	Address Not Identified in Research Source
150 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
151 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
152 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
153 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
154 2NDL	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
155 2ND ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
155 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
156 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
158 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
16 3RD ST W	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
160 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
160 1ST ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
160 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
160 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
162 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
163 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
164 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
164 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
164 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
165 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
166 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
166 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
167 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
167 2ND HD GDS FRONT	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930

FINDINGS

Address Researched	Address Not Identified in Research Source
167 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
168 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
169 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
169 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
169 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
170 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
170 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
171 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
171 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
171 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
172 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
172 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
173 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
173 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
173 2ND HAND GDS FRONT	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
173 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
174 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
174 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
176 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
178 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
179 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
18 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
180 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
180 2ND ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
181 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
182 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
182 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
183 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
183 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
184 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
184 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
185 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
185 1ST ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
185 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
185 3RD ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
186 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
186 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
187 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
187 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
187 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
188 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
188 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
189 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
189 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
189 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
190 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
190 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
191 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935

FINDINGS

Address Researched	Address Not Identified in Research Source
191 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
191 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
192 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
193 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
193 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
193 2ND HD GDS FRONT	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
193 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
193 3RD OPEN EVENINGS	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
194 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
194 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
195 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
195 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
195 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
20 3RD ST W	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
200 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
200 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
201 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
201 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
202 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
203 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
203 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
205 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
205 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
206 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
207 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
207 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
207 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
208 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
209 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
209 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
209 3RD NEAR SALMON	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
209 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
21 1 GLISAN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
210 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
210 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
211 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
211 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
212 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
213 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
213 3RD NEAR SALMON	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
214 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
215 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
215 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
215 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
216 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
217 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
218 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
219 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
220 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
220 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
220 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
221 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
223 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
224 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
224 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
224 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
225 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
225 2ND ST NW	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
225 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
225 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
226 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
226 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
227 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
227 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
227 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
227 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
228 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
229 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
229 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
229 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
230 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
230 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
231 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
231 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
231 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
231 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
232 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
233 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
233 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
233 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
233 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
234 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
235 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
235 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
235 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
235 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
239 2ND ST NW	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
240 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
241 2ND ST NW	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
242 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
245 2ND ST NW	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
245 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
248 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
248 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
249 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
25 3RD ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
250 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
250 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
250 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
251 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
252 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
253 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
255 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
255 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
255 DEPOT ST	2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
26 3RD NW ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
260 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
263 2ND	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
28 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
284 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
284 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
286 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
288 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
3 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
30 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
30 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
30 3RD ST W	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
300 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
300 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
305 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
305 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
305 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
307 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
31 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
310 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
315 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
32 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
320 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
320 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
325 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
325 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
328 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
33 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
330 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
330 CEDAR ST	2013, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
330 DEPOT ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
330 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
332 DEPOT ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
335 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
340 DEPOT ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
342 DEPOT ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
344 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
345 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
347 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930

FINDINGS

Address Researched	Address Not Identified in Research Source
347 SW CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
348 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
348 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
35 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
35 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
35 3RD ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
350 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
350 DEPOT ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
350 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
352 DEPOT ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
355 CEDAR ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
355 CEDAR ST	2013, 2008, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
355 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
389 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
389 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
39 1 MORRISON	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
39 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
391 MAIN	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
391 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
40 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
40 1ST ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
40 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
400 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
41 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935

FINDINGS

Address Researched	Address Not Identified in Research Source
41 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
42 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
42 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
43 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
43 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
44 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
44 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
45 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
45 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
46 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
46 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
47 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
48 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
48 1ST ST	2013, 2008, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
48 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
49 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
49 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
50 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
51 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
51 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
51 3RD ST W	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
52 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
52 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
53 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935

FINDINGS

Address Researched	Address Not Identified in Research Source
53 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
54 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
54 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
55 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
55 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
6 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
60 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
60 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
60 MAIN ST	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
61 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
61 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
61 3RD X	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
62 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
62 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
63 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
63 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
64 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
65 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
65 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
66 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
66 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
66 3RD X	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
67 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
67 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935

FINDINGS

Address Researched	Address Not Identified in Research Source
68 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
68 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
69 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
69 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
7 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
70 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
71 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
71 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
72 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
73 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
73 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
74 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
75 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
75 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
76 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
76 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
80 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
80 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
81 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
82 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
83 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
83 1ST WAINDRICK MYRTLE STNG JNO OUNTY	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
83 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
84 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
85 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
85 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
86 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
86 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
87 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
88 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
88 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
89 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
9 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
90 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
90 1ST ST NE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
90 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
91 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
91 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
91 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
92 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
92 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
92 3RD X	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
93 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
93 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
94 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935
94 3RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924
94 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
95 1ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
95 4TH	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930

Source Page Images Appendix

610
1ST PL SE (GRESHAM)—FROM 3645 SE EL CAMINO DR NORTH

ZIP CODE 97030
3855 Lundbom Paul A ◎ 665-0729
3905 Morris Roy ◎
3960 Choi Woo Yong ◎ 666-5842
NE BARNES AV INTERSECTS
3990 Gardner Craig A ◎ 665-5226
NE PALOMA AV INTERSECTS
4020 Walter Charles H ◎
4035 Long David A contr ◎ 666-1241
4040 Deiss Herman R ◎ 666-7031
4075 Bromley Ralph ◎
4080 Biornstad James H ◎ 661-7447
4095 Doyle Danl P ◎ 665-3987
4125 Cruser Wendell R ◎ 666-6925

563
1ST ST NE (FAIRVIEW)—FROM 60 DEPOT ST SOUTHEAST

ZIP CODE 97024
40 No Return
90 F City Shops 665-9320
MAIN ST INTERSECTS
185 Felker Chism L ◎ 665-8734
CEDAR ST INTERSECTS

642
1ST CT NW (GRESHAM)—FROM 80 NW HARTLEY AV EAST IN A SEMI-CIR

ZIP CODE 97030
3600 Hegstad Guy G ◎ 666-7235
3620 Ceglie Steph L ◎ 665-1237
3631 No Return
3640 Harding Glenn P ◎ 665-8994
3651 Romero Edgardo A ◎ 665-1584

603
1ST ST NW (GRESHAM)—FROM N MAIN AV WEST 1 NORTH OF W POWELL BLVD

ZIP CODE 97030
11 Office Building
15 Sher Designer Jewelry 667-2311
17 Hair Tailors beauty shop 667-9200
25 Musashi japanese restr 665-6060
27 Mc Allister's Shoes For Jr's 667-2470
29 Vacant
33 Homestead Fabrics 661-1790
55 Eastco Thrift Shop 665-7530
75 Gresham Fitness Center 665-7702
Gresham Tanning Center tanning salon 665-0860
NW MILLER AV INTERSECTS
121 Morris Robt D dentist 665-3500
Petterson Dean B dentist 667-1001
125 Brown Howard L cpa 661-0308
135 Morrison Center East County (pre sch day treatment prog) 667-2626
155 Floyd's Fine Foods mobile lunch wagons 665-5510
★Splawn Margt L Mrs 667-3896
219 Rumors About Town hair salon 667-9130
224 Buckley Maxine A Mrs 661-6449
346 Saint Henry Catholic Church 665-9129
347 Mosbrucker Jacob Rev 665-1982
395 Saint Henry Religious Educ Center 666-3791
NW AVA AV INTERSECTS
451 St Henry Youth And Family Center 666-3791
Flach Carl Rev
541 Cary Richd R ◎ 667-2233
NW NORMAN AV INTERSECTS
612★Jonathan Bryan D ◎ 665-2785
622★Cooper Albin E ◎ 665-3807
625 Fialka Dean A 661-2369
630 Luttropp James W ◎ 665-4649
667 Abramavage Steven R ◎
700 Mc Caulou Fred C ◎
715 Majors James S ◎ 666-7271
NW SLERET AV INTERSECTS
735★Leis Jeffrey P Rev ◎ 661-3796
745 Schneider Robt G ◎ 665-2230
760★Reinders Glenn A ◎ 667-2492
811 South Etta M Mrs ◎ 665-1235
827 Eledge Grover A ◎
NW WILSON AV INTERSECTS
901 Manwiller David W ◎ 667-5851
913 Caldwell Fern C Mrs ◎ 666-1796
965 Severseen Jacob A ◎ 666-8057
1001★Cecil Scott E
1002★Eichner David K ◎ 661-6918
1027 Klinger Gerald F ◎ 665-8330
1043 Wesley James D ◎ 667-5875
NW FLORENCE AV INTERSECTS
1107 Durr Frances M Mrs ◎ 666-1655
1130 Caldwell Michl D ◎ 667-8134
1133 Slaughter Dennis R ◎ 665-3936
1202 Williams Connie M Mrs 667-3948
1213 Perry Wm T ◎ 666-5639
1226 Noel K Lynn Mrs ◎ 665-4316
1229 Irving Michl L ◎ 665-4408

604
NW WALLULA AV INTERSECTS
1335 No Return
1340 Friesen Dennis R Rev ◎ 667-0674
1355 Reseburg Fred ◎ 665-2907
1360 Lechner Eliz J Mrs ◎ 665-3628
1390 Thorsell Walter K ◎ 666-4689
NW CHASTAIN CT INTERSECTS
1400 Beller Clyde P ◎ 666-1450
1420 Opoka Arnold S ◎ 665-2036
1435 Webber Walter W ◎ 665-0754
1455★Sommers Michl ◎ 666-4906
NW TOWLE AV INTERSECTS
1501 Bowers Betty P Mrs ◎
1545 Leamon Willard K ◎ 661-1241
1560 Preskey Herbert A bkpr serv ◎ 665-1253
1575 Dailey Lasure L ◎ 665-3282
1580 Anderson John W Jr ◎
1582 Bailey Lee A 665-1675
1595 Lovely Robt F ◎ 666-1478
1610 No Return
1615★Megyesi Harold ◎ 666-6051
1620 Faubion Elmer J ◎
1650 Hergert Aurelia P Mrs ◎ 665-8753
1670 Felker Wm C ◎ 665-0467
1675 Roesch Violet V Mrs ◎ 665-5838
1680 Brownscombe Ralph H ◎ 666-6937
1685 Stegall Louise G Mrs ◎ 665-4324
1690 Young Mildred M Mrs ◎ 665-7857
BELLA VISTA AV INTERSECTS
2021★Burke Gabriella 666-1791
2031 Wandtke Herbert E ◎
2070 Scofield Raymond E ◎ 666-2698
NW WONDERVIEW AV INTERSECTS
2135 Davenport David M ◎ 667-5715
2175 Perry Leslie R ◎ 666-6486
2195★Builta Lincoln ◎ 667-6265
NW BIRDSDALE AV INTERSECTS

642
ZIP CODE 97030
3425 Bates L L ◎ 667-6077
3470 Domke Eug H ◎ 667-5239
NW PLEASANT VIEW AV INTERSECTS
SW PLEASANT VIEW AV INTERSTCTS
3705 Brischle James H ◎ 666-8507
3720 Alexander Janet K Mrs ◎ 666-5497
3725★Erickson Gordon J 661-6011
NW ROYAL AV INTERSECTS
3815 Barnhart Robt A ◎
3845 Sempio Julianna N Mrs ◎ 666-3832
NW PHYLLIS CT INTERSECTS
3990 Portland Adventist Elementary School 665-4102
4011★Mattier Lawr E ◎ 666-2088
4035★Monahan Patk
4067★Louie Shelton ◎
4099 Takashima Ruth ◎ 665-4965
NW GIESE AV INTERSECTS
4185 Stewart Ivan M ◎ 661-4063
NW NANCY PL INTERSECTS
NW LINNEMAN AV INTERSECTS
SE 182D AV INTERSECTS

602
1ST ST SE (GRESHAM)—FROM 85 SE LINDEN AV EAST

ZIP CODE 97030
790 Vacant
SE JUNIPER AV INTERSECTS

601
E POWELL BLVD INTERSECTS
1905 Parker Danl C ◎
1975 Vacant
2019 Space Age Fuel whol petr distr 665-5693
2053 Blakely O B Construction Co bldg contrs 666-2505
Ed's Rental Service genl contrs 666-2505
T W E elec contr 667-5155
2176 Mount Hood Oil Co Inc fuel oils 665-2188
E BURNSIDE RD INTERSECTS

609
2331 Chitwood B
2341 Vacant
2351 Vacant
2361 Mathews Clyde E ◎
2381 Gaskill Steve Jr 666-0889
2391 Beyer T
2401 Vacant
2441 Gradin Elton A ◎ 665-2214
2650 No Return
2660 Leymaster Dale G ◎ 666-1116
2670 Jones Russell D ◎ 665-2563
2680 Sweeney Margt R Mrs ◎
NE VILLAGE SQUIRE AV INTERSECTS
2800 Meyers Square Apartments 667-9161
1★Watkins J
2 Reese Joann
3★Wolter D
4★Robbins Z
5 Hay
6 Pullen Lawrence L 661-7860
7 No Return
8 Parnell
9 Montford James L 661-0798
10★Parker J
11★Jorgenson P
12★Balch M
13 Everaert Mary 667-3178
14★Blake R
15 Clyde
16 Bralbeak
17 Thompson
18 Tribble June 667-0884
19 Kaufman
20 Johnson
21★Snow D 665-9517
22★Wooten Steven L 667-5810
23★Skoupy E
24★Bjork K 661-5393
25★Moore M
26 De Lucca Thomasian 667-3609
27★Olsen C
28 Hill
29 Dobson Meta
30★Scott L
31 Owens Leah L
32★Larson R
33★Mc Keister D
34 Hubbard
35★Mc Ginnis T
36 Empson Lillie I 665-1268
37 Brancroft Dominic Sister 666-6788
38★Perkins Dick 667-9161
39 Gunter Irene 661-6439
40 Grassley Catherine 667-0934
41 Frazier
42 Crowder Margt M 661-5877
43 Verschingel

563

2D ST NE (FAIRVIEW)—FROM 200 MAIN ST SOUTHEAST

ZIP CODE 97024
100 Casebeer Dwight F ◎
125 Nixon Elman E ◎ 666-6586
135 Burg Dennis R ◎ 666-6240
155 Damrill Linda J Mrs 667-8130
CEDAR ST INTERSECTS
HARRISON ST INTERSECTS
180 Vonderharr Roger A ◎ 665-0491
301 Vacant
365 Wills Melvin ◎ 661-6457
385 Wheeler Jesse E ◎ 665-0076
LINCOLN ST INTERSECTS
FARIVIEW AV INTERSECTS

300

2D ST NE (TROUTDALE)—FROM 100 SE HARLOW ST WEST

ZIP CODE 97060
302 Vacant
315 Vacant

603

2D ST NW (GRESHAM)—FROM N MAIN AV WEST 2 NORTH OF POWELL BLVD

ZIP CODE 97030
20 Gresham Mail Service 661-0600
30 Gresham Book Exchange 667-8805
Western Union 661-0600
40 Anderson Dan Karate sch 665-8596
50 Davis & Tax Printing Inc 667-3433
52 Gresham Gun Works sls & serv 665-3247
60 Nizic John S dentist 665-3116
70 Vacant
80 Image Makers Hair Styling 665-3291
90 Stone Wm E dentist 665-4795
NW MILLER AV INTERSECTS
105 No Return
143 L-D Painting Serv auto pntg 661-6225
145 G-A Enterprises wldg 665-0219
147 Four Wheel Drive R V & Marine Repr wldg 661-8888

602

2D ST SE (GRESHAM)—FROM 201 SE ROBERTS AV EAST

ZIP CODE 97030
210★Klien Rocky L
220★Whitten Jas M
225★Olson Scott A ◎ 666-9589
230 Deardorff Maxine Mrs ◎
295 De Shetler Juliette M ◎ 667-7046
SE HOOD AV INTERSECTS
303★Zwanziger Marlyn D ◎ 667-1107
305 No Return
320 Cooper Pamela K 666-3289
322 Wright Sandie Mrs
337 Wright Wayne F ◎ 665-4296
340 No Return
350 Davis Gladys M Mrs ◎ 665-9370
SE BEECH AV INTERSECTS
405 Kane Clary A Mrs
450 Eggeleston Dalton L 666-4847
490 Dickinson Donald A ◎ 665-3511
SE KELLY AV INTERSECTS
550 Vacant
SE ELLIOTT AV INTERSECTS

601

SE CLEVELAND AV INTERSECTS
920 Coates Irene E Mrs 665-2534
940 Wertman L L ◎ 665-2500
SE MORLAN AV INTERSECTS
1025 Vinsonhaler Michl L ◎ 667-1079
1050 Olson Julia Mrs ◎ 665-5541
1075 Goosic C Beatrice Mrs ◎ 665-1449
1125 Lang Clarence A ◎ 665-2475
1130★Mc Kenzie David C ◎ 665-2826
SE EVELYN AV INTERSECTS
1145 Schaeffer Ellen M Mrs ◎ 666-3536
1175★Susan David A ◎ 666-1908
1210 Norris Cecilia M Mrs ◎ 666-1064
1220 Lunceford Roger A ◎ 661-2865
1225★Clark Wm M ◎ 666-2308
1255 Davidson Gary L ◎
SE LIBERTY CT INTERSECTS
1270 Bourgo Robt M ◎ 665-7727
1285 Marleau James ◎ 665-3962
1315 Roche Harvey E ◎ 666-7464
1320★Bates Irene L ◎
1404★Walter Lonnie G 669-1241
1420★Hergert Darren P 667-1083
1422 Sellner Cary J 666-9449
1438 No Return
SE VISTA AV INTERSECTS

609

3101 Vacant
3110★Fisher Dennis 665-7752
3111★Vehes M Vernon ◎ 667-5107
3123 No Return
3128 Wilson Terry J ◎ 667-6490
3135 Keller David 661-1290
3147 Haydon James M ◎ 661-1134
3155★Gillespie Craig 667-1827
SE PAROPA CT INTERSECTS
3201 Ouzens
3215 Howland Walter W 666-6793
3221 Esters
3232 Sethaler Gregory A ◎ 666-8307
3236 Vacant
3243 Hodges Larry E ◎ 661-6006
3245 Vacant
3248 No Return
3250 No Return

300

2D ST SE (TROUTDALE)—FROM BUXTON RD EAST 1 SOUTH OF E COLUMBIA ST

ZIP CODE 97060
SE DORA ST INTERSECTS
133 No Return
202 Masonic Temple Association (Busn Ofc)
205 No Return
207 Ferch Walter W
209 No Return
235 Davis Mark 666-7908
249 No Return
SE HARLOW ST INTERSECTS
342 Frick Patricia A Mrs ◎ 666-6396
SE KIBLING ST INTERSECTS
403 Apartments
1 Woody Frank B
2 Vacant
3 Masuo John D
4 Gering Ben A 667-4672
5 Null Rich A
6 Howard Jody
7 Vacant
8 Vacant
9 Layton Hiram H 667-4780
10 Mathews Jimmy D
11★Mauk Tina M
12 Matthieson Richd

300

2D ST SW (TROUTDALE)—FROM BUXTON RD WEST 1 SOUTH OF E COLUMBIA ST

ZIP CODE 97060
133 Thornton Douglas S ◎ 665-0798

642

2D ST SW (GRESHAM)—FROM 80 SW HARTLEY AV EAST

ZIP CODE 97030
3470 Johnson Richd W ◎ 667-5892
3490 Murray Gary W ◎ 667-2956
3520 Leng Juanita H ◎ 661-1984
SW PLEASANT VIEW AV INTERSECTS
3550 Fewell Wm R ◎ 666-3867
3557★Stroh Douglas B 666-9222
3580 Carlston Gregory S ◎ 667-0344
3597 Yates Larry W ◎ 666-6651
3610 Worrell Kathleen ◎
3630 No Return
3637 Rivera Regulo ◎ 667-1299
3667★Criswell Jerald M ◎ 666-6838
3670 Lower Roy E ◎ 666-2577
SW HARTLEY AV INTERSECTS

642

3D DR SW (GRESHAM)

ZIP CODE 97030
1505★Albright Ronald J 661-8690
1510★Haverland Arth P ◎ 665-0196
1519★Lucero Paul
1522★Mueke John F ◎
1523 No Return
SW ANGELINE AV INTERSECTS
1603 Nielson Christopher
1615★Desrochers Gary E ◎ 666-3641
1618 No Return
1624★Lemieux Richd J 666-8620
SW BELLA VISTA AV INTERSECTS
1627★Jones Gregory B ◎ 667-2413
1632★Weiss Walt 665-9732
1802 No Return
1810 No Return
1819★Clifton Raymond L ◎ 666-5422
1822 No Return
1827★Seibel Kenny 661-5537
1838★Eki Norman T ◎ 666-9023
SW WILLOWBROOK DR INTERSECTS
1907 No Return
1910★Sparks Robt A Jr ◎ 666-9042
1922★Shaw Wayne T ◎
1927★Roche Michl P ◎ 666-5827
1936★Burnett Norman K ◎ 666-7693
SW LILLYBEAN AV INTERSECTS
2302 No Return
2321 Vacant

600

3D ST NE (GRESHAM)—FROM N MAIN AV EAST 2 NORTH OF E POWELL BLVD

ZIP CODE 97030
15 Dixons Richard Hair After beauty shop 667-2228
25 Vacant
31 Billiards 'n Bagels 666-5338
NE ROBERTS AV INTERSECTS
133 Vacant
207★Stollings Mary M
209★Martin John
215 Spurgeon Maureen
NE HOOD AV INTERSECTS
333 Executive Building
Vacant
405 West Gresham Oregonian 666-3481
NE KELLY AV INTERSECTS
501 Apartments
1★Goldberg Monique
2 Vacant
3 Miller Donnel M 661-6490
4 Kessler
520 Vacant
524★Hawkins Anthony 666-6781
525 Vacant
543★Soldan Peter R 661-2114
NE ELLIOTT AV INTERSECTS
607★Ames Mary E 665-1506
609 Hansen D J
611 Park Rosella 661-2070
615 Jensen Eug P ◎ 666-2057
NE LINDEN AV INTERSECTS
710 No Return
711 Vacant
NE JUNIPER AV INTERSECTS

NE 3D ST (G)—Contd
815 Aylsworth Wm C ◎ 665-5325
835 Carrell Lillian M Mrs ◎ 666-1445
850★Reinders Randy L ◎ 666-9430
855 Forester Gladys A ◎ 665-3609
885 Rutledge Philip D ◎ 665-6524
905★Frank Albert
955 Lampert Opal J Mrs ◎ 665-9365

609
NE PALMBLAD DR INTERSECTS
2910 Hughes Barbra M
2925 Albus Mervin H ◎ 665-7833
2930 De Haas Lucille L Mrs ◎
2945 Nash Gary V ◎ 667-2599
NE ROBIN WAY INTERSECTS
3015 Jacobsen Harvey A ◎ 667-6640
3020 Copeland Scott N ◎ 667-4769
3025 Smith
3080 Wahlsmith Robt
3085 No Return
NE HALE DR INTERSECTS

610
NE SCOTT AV INTERSECTS
3661 Ferran Wm ◎
3672 Vacant
3683 Kassing David D ◎ 665-3465
3716 Tuke Dan E ◎
NE LA MESA CT INTERSECTS
3728 Vacant
3752 Anderson J M ◎ 666-7449
3784 Osburn K ◎
3825 Snell V M ◎
3826 Bassitt Bruce W ◎ 667-1319
3840 Vacant
3849 No Return
3877 Grunwald Kenneth M ◎ 666-7836
3882 Vacant
3891 Woolhiser Alexandria ◎ 667-8418
3898 La Mar Richd A ◎ 665-0868
3914 Niehues Richd A ◎ 667-9197
NE PALOMA AV INTERSECTS
3936 Vacant
4007 Mc Cann J ◎
4018 Vacant
4021 Scott Dean P ◎ 665-7742
4030 Larson Fred R ◎
4055 Robinson Rodney ◎ 667-0997
4062 Fackrell James W ◎ 661-0275
4069 Catto Dale E ◎ 665-0810
4073 Davis Wm B ◎ 666-8701
4074 Powell Ray P ◎
4096 Kinney Robt ◎
NE EL CAMINO CT INTERSECTS
4129 Vacant
4130 Vacant
4131 Vacant
4132 Vacant
4135 Vacant
NE EL CAMINO DR INTERSECTS

563
3D ST NE (FAIRVIEW)—FROM 330 DEPOT ST SOUTHEAST

ZIP CODE 97024
15★Layton Janice M 661-5213
25 No Return
35 Lombard Mary E ◎ 661-3981
MAIN ST INTERSECTS
130★Bruno Michael J 665-8127
145 Larsen Paul C 661-4061
185★Claggett Michael E
245 Newcomb La Verne P ◎
CEDAR ST INTERSECTS
HARRISON ST INTERSECTS

603
3D ST N W (GRESHAM)—FROM N MAIN AV WEST 3 NORTH OF W POWELL BLVD

ZIP CODE 97030
10 Third & Main Hair Design 661-1700
16 Accu' Print By Julie 667-3100
20 Bridal Staircase 665-4666
Dee's Studio Ltd photog 665-4666
30 Dee's Studio Ltd (Addtl Sp)
51 Vacant
NW MILLER AV INTERSECTS
115★Heaton Thos A
125 No Return
139 Vacant
NW BLAINE LA INTERSECTS
720 Schleichert Dolores Mrs ◎ 665-1862
730 Repsold Nelson B ◎ 667-3263
735 Repsold Corinne A ◎ 667-6685
755 Codino John A ◎ 667-5649
780 Sansregret Leo ◎ 665-0393
795 Mitchell Robt M 665-6086
820 Biggar Walter S ◎ 666-8364
835 Vicar
840 No Return
845★Mastbrook Richd C 665-4621
880 Holcom Ronald E ◎ 665-6847
895 Eddington C E ◎ 666-7536
900 Seivert Douglas J ◎ 665-9842
915 Hotchkiss Earl A ◎ 661-2148
940 Mc Vey Larry H ◎ 665-3737
945 Newman Wm J ◎ 665-6062
980 Nash Danl W ◎
985 Oslund Shirley E Mrs ◎ 665-8754
1000 Petersen Lauren G ◎ 666-8656
1015 Hoecker Ernest E ◎ 665-8961
1020 No Return
NW OVERLOOK CT INTERSECTS
1045 Dowsett Richd L ◎
1060 Lucas Michl L ◎ 667-4641
1065 Voyles Wm L ◎
1140 Bruss Leo ◎ 665-2609
NW 4TH ST INTERSECTS

NW TOWLE AV INTERSECTS
1520 Mc Intyre John H ◎ 665-5489
1525 Elliott Fairman G ◎ 665-7710
1540 Voss Richd H ◎ 667-0316
1545★Stauffer Pamela J ◎ 661-5609
1560 Dunn James E ◎ 666-4492
1575 Brimble Robt P ◎ 665-7665
NW ANGELINE AV INTERSECTS
1615 Olbrich Albert A ◎ 665-5959
1620 Beedle David H ◎ 661-6286
1630 Hietpas Jas F ◎ 667-4572
1650 Lindley Dale C ◎ 666-2593
1725★Knutson Wm A ◎
1740★Firman Ted F 666-1115
1775 Morris Robt D ◎ 665-6262
2015 Kromer Roger L ◎
2020 Parker Robt D ◎ 665-8779
2065 Norquist Warren A ◎ 666-3954
2090★Dikeman Gary O ◎ 667-9280
2095 Dunham Donald L ◎ 666-0310
2100 Pearce Fred B ◎ 666-4250
2105 Kralevich Louis S ◎ 666-2061
2110 Den James P ◎ 667-0127
2115 Humbert Wm J ◎ 667-5039
2140 Bevilacqua Jack J ◎ 666-6870
2180 Dawson Dexter A ◎ 666-3756
NW BIRDSDALE AV INTERSECTS

642
3860★Tester Jeffery L 669-1790
3871 Miethe Jack M ◎ 665-8448
3895 Ramsey John A ◎ 666-6205
3900 No Return
3919★Ohler Dominique G 667-9849
3931 Schimpf David R ◎
3944 Hanefeld Richd M ◎ 666-2955
3965 Dawley Leslie A ◎ 666-7922
3986 Bass Jack P 666-4968
3999 Dahlin Ivor K ◎ 667-8001
4010 Evans Gary ◎ 666-7741
4021 Crane Franklin T ◎ 667-3254
4034 Woods Norman D ◎ 665-6426
4045 Pfenning Edw P ◎ 665-0073
4079★Haney Carol A 669-0837
NW GIESE AV INTERSECTS
4131★Cuevas Jas J 667-6522
4165 Roeter Robt J ◎ 667-6541
4174 Bateman Larry D ◎ 666-6115
4189 Vacant
4198 Kemper David E ◎ 666-1297
4201 No Return
4210 Fleshman Lois M Mrs ◎ 667-4164
4215 Chinn Edw J ◎ 666-1351
4234 Greenlee John M ◎
NW LINNEMAN AV INTERSECTS
4280 Stephens Terry L
SE 182D AV INTERSECTS

300
3D ST SE (TROUTDALE)—FROM BUXTON RD EAST 2 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Vacant
114 No Return
116 Vacant
SE DORA ST INTERSECTS
208 Norment Gladys M Mrs ◎ 666-1184
210 Golder Curtis A
212 Jeffcott Richd M 667-3146
SE HARLOW ST INTERSECTS
SE KIBLING ST INTERSECTS
443 No Return
445 Haskell Richd L
SE SANDY ST INTERSECTS

609
3D ST SE (GRESHAM)—FROM SE PALMBLAD DR EAST 1 SOUTH OF SE 1ST ST

ZIP CODE 97030
2445 United States National Bank Of Oregon 666-9504
604
2915 Vacant
2926★Ciobanasiu Aurel 667-7043
2966 Hachiya David 666-8242
3013 Warren Michl A
3016 Pearson Wm L
3033 Platt
3040 Reddi-Kleen jan serv 665-5586
SE HALE DR INTERSECTS

610
ZIP CODE 97030
3610 Vacant
3630 Brunelle J A ◎ 666-4261
3650 Jones Dick ◎
3665 Carandanis Perry T ◎
3670 Kueher Floyd W ◎ 661-7939
SE LA MESA CT INTERSECTS
3700 Vacant
3720 Watson Neldon L Rev ◎ 661-7020
3730 Vacant
3735 Piel Ann R Mrs ◎ 666-4115
3740 Yacoub Shaker ◎ 665-1801
3745 Vacant
3750 Hardin Michl A ◎ 666-5875

642
3D ST SW (GRESHAM)—FROM 330 SW HARTLEY AV WEST

642
ZIP CODE 97030
3720 Duran Amado Z ◎ 666-7694
3725 Devine Jas D ◎ 667-7887
3750 Watkins Wm W ◎ 666-1489
3765 Conover Eug J Rev ◎ 665-0992
SW ROYAL CT INTERSECTS
3780 Erspamer Keith ◎ 667-1751
3820 Carneau Ernest F ◎
3848 Bray Greg L ◎ 665-5752
3889★Henderson Robt F ◎ 665-2191
3896 Herkenhoff Louis H ◎ 665-5726
SW PHYLLIS CT INTERSECTS
3901 Larson Janice K 667-7843
3902 Smith Mark ◎
3931 Boyles Larry 665-0664
3991 Koosman Bernard W ◎ 661-0538
SW DUNIWAY AV INTERSECTS

SW 3D ST (G)—Contd
4021 Clifton Ray L ◎
SW NANCY AV INTERSECTS

604
4TH CT SW (GRESHAM)—FROM 1478 SW 4 ST SOUTH

ZIP CODE 97030
412 Bauman Commons Condominiums 665-5977
Collier Larry H ◎ 665-6373
414 Graf Robin S Mrs ◎ 667-6509
416 Ayles Genevieve E Mrs ◎ 661-5447
418 No Return
432 Geisler Margt L Mrs 665-7245
434 Runnels Oris L ◎ 665-9845
436 No Return
438 Smith A J 661-5654
462 Pfilf Richd J 661-4756
464 Lyslo Roald K ◎ 665-0478
466 Vacant
468 Wehrkamp Roy V ◎ 666-2388
512 Putnam Robt ◎
514 Felton Gaylord E ◎ 665-5977
516 Ostrem Louis 661-6290
518 Vacant
522 Thatcher Ed
524 Francisco Patk 666-5189
526 Vacant
528 Vacant
522 Smith Jean S
554 Crutcher Gwenyth V Mrs ◎ 666-1279
556 Parker Alvin E 665-9402
558 Clark Reba ◎ 667-5442
562 Winn Larry 666-2535
564 Meyer David M 661-0254
566 Wood E Maxine
568 Gabriel Michl
612 Miller Wm J 661-2038
614 Paintner Michl R 669-1380
616 Ross Henry M 661-2610
618 Vacant
642 Brown Stanley M ◎ 661-1497
644 Pizarro Marciano ◎ 665-6406
646 Vacant
648 Krupa Raymond J ◎ 667-6116
662 Rogan Gayle 666-5281
664 Taylor
666 Smith Edna E 665-3850
668 Molenaar Cecilia K Mrs ◎ 666-6637

600
4TH ST NE (GRESHAM)—FROM N MAIN AV EAST 3 NORTH OF E POWELL BLVD

ZIP CODE 97030
39 Salvation Army Family Service Center 661-2704
NE ROBERTS AV INTERSECTS
129 Johnson Harlan B 665-6965
130 Kahn Leo P cpa 665-1940
228 Vacant
NE HOOD AV INTERSECTS
330 Vacant
339 King Mark F 661-4214
340 Adams David
NE BEECH AV INTERSECTS
405 Apartments
1 Dooley Hannah F Mrs 666-8544
2 Vacant
3 Vacant
4 Ward Bonnie
5 Salopek Virgina M
6 Green Evelyn L
406 House Of Wood Antiques 667-8450
Hoodland Carpet carpet store 665-7489
Wood Electric small appl repr 661-2112
415 Mannthey Mary A Mrs ◎
456★Adams Vickie
NE KELLY ST INTERSECTS
510 Vacant
519 Cook Vernon lwyr 665-8143
520 Carver Juno D ◎
541 Gresham Health Center 667-8127
NE ELLIOTT AV INTERSECTS
600★Wilson Richd E 661-5725
604★Johnson Todd L 661-0425
605 Reburn Menick D ◎ 665-8331
651 Davis Richd P
653 Cowan Shirley K
655★Ferguson Elwood L Jr 661-2651
657★Boehm Cindi 665-5057
670 Vacant
680★Eichler Jodi A
690 Vacant
NE LINDEN AV INTERSECTS
708 Jones Raymond L ◎ 665-2550
710 Mark Ethel E Mrs ◎ 666-8891
NE JUNIPER AV INTERSECTS
800 Cleveland Colonial Apartments 665-2365
Vacant
802 Smith Ida Mrs 665-7620
804 Florence Jack V
806★Webster Mary Ann
810★Duong Phu 665-2365
812 Conibear James S 661-6251
814 Hendricks Agnes E Mrs 666-2102
815 Dryden Jack M ◎ 666-7267
816 Ryan Jas A 665-4898
818★Wellington Robt
820★Jackson Jeffrey 661-6445
835 Haun T ◎ 667-4573
915 Mc Laughlin Wes ◎
925 Venable Auda T 666-8442
927 Taylor David B ◎ 666-7805
965★Kiester Martha P 667-0869
975★Mc Koon Roy F sells bar sups 667-9974

NE CLEVELAND AV INTERSECTS

2825 Plummer James F ◎ 666-5306
2850 Hire Della I Mrs ◎ 667-4553

3575★Cox Clare H ◎ 661-4913
3578 Edgley Richd M ◎ 666-1361
3622 Herrala James I ◎ 661-6194
N E HACIENDA PL INTERSECTS
3659 Kosderka Frank J ◎ 667-0834
3666 Shadbeh Kaosor H ◎ 667-0630
3680★Ebersole Eug F ◎ 661-3244
3691 Davison Scott A ◎ 665-1348
NE LA MESA CT INTERSECTS
3732 Passmore Geo G ◎ 665-7967
3766 Lee Chester R ◎ 666-2289
3775 Timpe Maurice C bldg contr ◎ 666-2832
3790★Bailey Robt L
3819 Jura Randell P 661-2436
3822 Vacant
3831★Bannister Leonard I 665-4639
3845 Sheck Chris ◎
3846 Teply John L ◎
3869 Yeager Richd F ◎ 667-9699
3871 Jacobsen Gail C ◎ 666-6403
3880 Slayton Rex E bldg contr ◎ 661-2682
3891★Rosenboom R J
3892 Correll Robt 665-0862
NE PALOMA AV INTERSECTS
4017 Sieren John R ◎ 667-9585
4020 Hambach Robt L ◎ 667-2387
4031 Query Ronald 667-9621
4042 Pirtle Raymond M ◎
4065 Lee Durwood ◎ 667-9342
4076 Brinkman James B tax consultant ◎ 666-4630
4087 Vacant
4090 Lollar Mitchell B ◎ 661-1495
4121 Roth Geo M ◎ 667-0962
4132 Bisio James 667-3633
4155 Kaufman Wm ◎ 667-3371
4166 Vacant
4180 Murakami John D ◎ 666-2182
4192 Deegan Willis J ◎ 661-2869
NE LAURA AV INTERSECTS
4216 Anderton James H 666-1993
4230 Penner Bernard J ◎ 666-5298

563
4TH ST NE (FAIRVIEW)—FROM NORTH OF DEPOT ST SOUTHEAST

ZIP CODE 97024
1 Number One Storage Depot 661-1055
★Murphy Vern 661-1055
DEPOT ST INTERSECTS
MAIN ST INTERSECTS
140 Mac Gregor Bridget B 666-5628
150 Duke Steph D 661-6410
155 Ayres Jerry R ◎ 666-2683
160 Clayter Elgin B ◎ 665-9296
CEDAR ST INTERSECTS
225 Simmons Rich M ◎ 666-4224
240 Uhl Velma J Mrs ◎ 665-3597
260 Libel Floyd G ◎ 665-4938
HARRISON ST INTERSECTS
345 Vacant
355 Greenhalgh Malcolm J 661-0491
370 Pennick Fred J 665-6670
380★Titus Jeffrey

603
4TH ST NW (GRESHAM)—FROM 345 NW NORMAN AV WEST

ZIP CODE 97030
NW NORMAN AV INTERSECTS
675 Waite Richd A ◎ 665-7082
NW BLAINE LA INTERSECTS
715 Mc Dowell Don H ◎ 666-2912
760 Siegel David H ◎ 666-2455
601 780 Ochiai Takashi ◎ 666-5955
795 Anderson Gregory S ◎ 665-4675
800 Ranstead Robt H ◎ 665-0732
609 835 Norval Kenneth C ◎ 665-6312
840★Parmenter Nancy J ◎ 665-9481
880 Irwin Jack L ◎
895 Summerfield Elmer L ◎ 665-8616
610 900 Mc Intyre B
915 Fanshier Marvin G ◎ 665-0910
940 Coppinger Mary Jane Mrs ◎ 666-1448
945 Malowney Richd C ◎ 665-5207
960 King Mary V ◎
965 Livermore Leroy C ◎ 665-3054
980 Krueger Dale W ◎ 665-6540
1000 Heiman Walter C ◎ 665-5686
1001 No Return
NW OVERLOOK AV INTERSECTS
NW 3D ST INTERSECTS
1155 No Return
1180 Sullivan Estelle M Mrs ◎ 665-7988
NW FLORENCE CT INTERSECTS
1200 Perez Walter F ◎ 666-2889
1215 Bessey Lola A Mrs ◎ 666-4962

604
NW WALLULA AV INTERSECTS
1314★Buzan John C ◎ 667-3397
1315 Carnegie Burton E ◎ 667-4473
1325 Weitzel Tom
1334 Wiesinger Carl F ◎ 665-5958
1335★Luond Larry D ◎
1345 Collins Marvin A ◎ 665-4268
1430 Lloyd Stewart J ◎ 665-8807
1445 Alexander Richd L ◎ 665-4579
1460 No Return
1490★Clark Robt A ◎ 665-3211
1495 Olson Madeline A Mrs ◎ 665-8880
NW TOWLE AV INTERSECTS
1505 Rygh James K ◎ 666-7281
1535 Didier Bert R ◎ 665-8928
1555 Splawn Elmus R ◎ 665-6395
1596 Howley Robt J ◎
1605 Schnee Richd S
NW ANGELINE AV INTERSECTS
1645 No Return
1660 Askelson Norman W ◎ 665-3985
1665 Roberts Robt S ◎ 666-7903
1725 Marsh Geoffrey L ◎ 665-8648

SE CARUTHERS ST—Contd
14711 Morgan Lonnie 760-1298
14712 Josephson Robt E ◎
14720 Gilmore Paul R ◎ 761-4222
14731 Hettman Dennis K ◎ 761-3326

522
15045 No Return
15046★Spellman Rebecca ◎ 760-6711
15111 Mc Kenney P
15114 Welker Jeff G 761-8572
15124 Vorpahl Laura L ◎ 761-4650
15129 Elkins C J ◎ 760-5334
15138 Larson Douglas E Mrs ◎
SE 152D AV INTERSECTS

526
S E 178TH AV INTERSECTS
17803 Walker David K ◎ 761-4863
17806★Cross Michl S ◎ 761-4936
17811 Chambers Richd D ◎ 761-7194
17820★Utterback Jack C ◎ 761-9453
17834 Peterson Dennis M 760-2299
SE 179TH AV INTERSECTS
17904 Casey Mary Jane Mrs ◎ 760-1626
17905 No Return
17908 Deming Arth T ◎ 761-9357
17911★Hall Tom M 761-4443
17922 Shadoan Joseph E ◎ 761-9052
SE 180TH AV INTERSECTS
18004 No Return
18008 Cipparone John L ◎ 761-9485
18009★Morsman Michl A 760-8349
18014 Fetters Gary ◎ 761-7110
18030 Vacant
18044 Fetters Von E 761-9461
18046★Ramos Victor M 760-6456
18110 Burger Cathy
18120 Fuhrer Henry M ◎ 666-7657

512
SE 182D AV INTERSECTS
18311 Gehl John A
18313 Lindsay Richd G
18317 Council Michl H 661-7212
18319★Larsen Raymond R 661-6519
18324★Lincoln Steven J ◎ 666-9211
18325 Dellett Ray 667-1257
SE 184TH AV INTERSECTS
18402 Trendell Wm B Jr ◎ 665-8835
18407 Read James W ◎ 666-8172
18410 Young Gilbert N ◎ 665-3000
18437 Warner Wm N ◎
18438 Henkle Frances ◎ 665-6416
SE 185TH AV INTERSECTS
18525 Ryan Luther A ◎ 665-9095
18526 No Return
18602★Ball Danl ◎
18609 Wallner Raymond ◎ 665-6278
SE 186TH AV INTERSECTS
18610 Havlik Frank ◎ 665-5800
18630 Butler Dale O ◎ 665-5638
18637 Livengood Gwendolyn J Mrs ◎ 665-2921
18646 Dhulst Rene J ◎
18709 Hogan James N 667-5190
18710 Lundblad Lester H ◎ 665-4229
18720 Vanbela
18721 Dannelley James A ◎ 667-1327
18731 No Return
18736★Schmidt Gregg P ◎ 666-0539
18637★Livengood Ronald S 665-3687
18741★Higgens Thos W
18750 Henderson Frankie R ◎ 665-7292
18850 Martin Ethel P Mrs ◎ 666-1461
SE 190TH AV INTERSECTS
19030 Strudler Gary ◎ 665-7522
19031★Hudson Michl W 665-1007
19042 Snyders Danl J
19043 Schneider Richd O ◎ 666-8471
19055★Kuehn James H ◎ 667-2233
19056 Ward Jeffrey R ◎ 665-7554
19067★Belasco Steven F ◎
19068 Haughton Donald L ◎ 661-3867

604
CASCADE CT NW (GRESHAM)—AN EXTENSION OF NW 6TH DR NORTH 1 EAST OF NW BIRDSDALE AV

ZIP CODE 97030
NW RIVERVIEW INTERSECTS
610 Kindel Robt N ◎ 666-4845
NW 7TH PL INTERSECTS
625 Tucker R L ◎ 661-2726
655 Zahursky Richd M ◎ 666-8135
690 Carscallen Paul M ◎ 665-3540
NW 6TH PL INTERSECTS
720 Morgan Brian K ◎ 661-6646
740 No Return
745 No Return
780 Harris Greg L 667-6170
785 Baird John B ◎ 665-8381
820 Roentz Geo F ◎ 667-5950
825 Huck Herman F ◎ 665-5750
840 Goodreau Raymond H ◎ 665-6949
845 Sullivan Geo B ◎ 666-3466
860 Wills Bryon S ◎
865★Rogge Emil G ◎ 665-7393
880 Kirst Wallin M ◎ 665-7058
885 Mc Kee Thos B ◎ 665-5759

565
CEDAR LA (WOOD VILLAGE PO TROUTDALE)—FROM NE MAPLE BLVD IN A SEMI-CIRCLE

ZIP CODE 97060
100 Ohren Herbert J ◎ 665-4906
101 No Return
102★Ferguson William G ◎ 669-0445
103 Harris Danl L 666-8737
104★Schielden Stewart 667-9571
105 Pearsall James D ◎ 667-7807
106 Davidson James R ◎ 666-8259
107 Anderson Jas P ◎ 667-9096
108 Burke John J ◎ 665-4710
109★Kerns Jerry L ◎ 666-2972
110 Rose Jeanette E ◎ 665-9812
111★Smelser Kenneth R Sr 661-7815
112 Adams Raymond R ◎
113 Morton Terry L ◎ 665-9515
114 Levellie Henry T ◎ 665-2721
116 Moyer Marvin C ◎ 666-1828
117 White Glen D ◎ 665-3496
118 Mc Gill Larry V ◎ 661-1516
119 Snider Floyd J ◎
120★Valitski Todd M 661-2082
121 Dombrosky Leo R ◎ 667-2665
123★Miller Steven G 666-9256
124 Neria Ricardo F ◎
HAWTHORNE AV INTERSECTS
125 Franks Vernon G ◎ 665-5508
127 Wallace Wm R ◎ 667-9597
129 Hallgarth Elaine ◎
131 Cisco Leon L ◎ 665-8386
135 Salter Richd H 667-2912
137 Espenel Richd L ◎
139 Coates Don H ◎ 665-3956

563
CEDAR ST (FAIRVIEW)—FROM NE 223D AV SOUTHWEST

ZIP CODE 97024
110 U S P O (Fairview) 665-9739
115 Kallman John E ◎ 665-8681
120 Kirk John B 666-6265
125 Handy Donald G 666-7350
135 Tollefson Gayle D Mrs ◎
140 Ruff Jerry F ◎ 666-5698
150 Breedlove Lee L 661-7719
NE 2D ST INTERSECTS
210 Smith Ray A ◎ 665-2987
★Smith Jaclyn
225 Rice Donald L ◎ 661-0101
230★Johnson Harold O ◎ 661-4570
235★Cunningham Danl L ◎ 661-6318
245 Farmer Nancy D ◎ 666-7863
250 Bills Clifford D ◎ 665-6765
255 Taft Roy D
NE 3D ST INTERSECTS
300 Shaw Thos L ◎ 666-1072
315★Partille John L ◎
320★Willard Matthew E 665-5666
325 Michael Gary J ◎ 661-2158
330★Wheeler Jerome T 661-1944
335 Wilson Christine M Mrs ◎
350 No Return
355★Lindberg Larry E ◎ 665-8063
NE 4TH ST INTERSECTS
405 Spielman Robt ◎ 665-0247
420 Welch Gerald R ◎
425★Harrison Wm R 667-5805
430 Mendoza Jose G ◎ 666-2315
435★Jones Randall L 666-1375
440 Blackwell
445★Altizer Larry G 667-5743
NE 5TH ST INTERSECTS
500 Forsythe Thos B
505 No Return
525 Ratcliff Dean E ◎ 666-6549
530 Williams Thos H ◎ 666-2274
545 Robinson Edna L Mrs ◎ 665-7563
550 Williams Steven C ◎ 667-0693
555 Marthaller M K Mrs ◎ 666-6671
NE 6TH ST INTERSECTS
600 Vacant
605 Arens John R ◎ 661-0302
615 Sykes Dewey C ◎ 667-5122
620 Brooks Helen E Mrs ◎ 665-3570
635 Dillard ◎
640 Johnson Berget O Mrs ◎ 666-1273
645 Hageman Leo F ◎
650 Wittig Dennis 666-5867
NE 7TH ST INTERSECTS (F)
700★Copeland June 667-3690
700a★Raya James L
705★Johnson Michael L ◎ 666-4143
710★Duran Marcia L Mrs
715 Rider Perry L ◎ 666-8940
720 Naillon Robt W ◎ 666-8424
725 Crawford Vern A
730★Mc Guire Marc W 661-1470
735 Mc Guire Brian J ◎ 667-9610
740 Sorlien Peter M ◎
745★Williams Erin E ◎ 661-3583
755★Heckman Eugene A ◎ 665-5464
770★Weich Richard A ◎ 666-8811
780 Villavicencio Frank A ◎ 667-1876
790 Dixon Tim W ◎ 667-0144
800 Blunck Jim E ◎ 665-2432

300-A
CELESTIA CIR SE (TROUTDALE) FROM 3701 SE STOTT AV EAST

ZIP CODE 97060
3620 Cantrell Bob I ◎ 661-0529
3623 No Return
3632★Hedges Gary A ◎
3635 Gilson Lee ◎

528
CENTER ST SE —FROM 3949 SE 92D AV EAST

ZIP CODE 97266
9210 Neville Terry W 775-2532
9301★Barrett James R ◎ 771-5556

544
SE 103D AV INTERSECTS
10305 White Milton A ◎ 760-1637
10306 Vacant
10320★Hodge Dale E ◎ 761-6547
10321 Douthit Jackson M ◎ 760-2357
10338 Lampa
10339 Cotton Jules P ◎ 760-4813
10354 Wagner Randy S ◎ 761-6103
10355 Mann David ◎
SE 104TH AV INTERSECTS
10407 Snedeker Joseph V ◎ 760-3906
10412★Sullivan John J
10421★Cardew Pete 760-4298
10426★Wickunen Don J 760-3120
10433 No Return
10438 Pruiett Pauline Mrs ◎ 760-2405
10445 Ledbury Thos A ◎ 760-1126
10450★Compton John T ◎ 761-2797
10507 Babiak John N ◎ 760-1256
10508 Robertson Wm H ◎ 760-2686
10519 Smock Maurice L ◎ 760-5227
10520 Daffern Donald C ◎ 760-5650
10531 Ballard Lloyd H ◎ 760-1354
10602 Clarke Carol R Mrs ◎ 760-2456
10607 Mader Esther I Mrs ◎ 760-1585
10614 Bay Jacquelne Mrs ◎ 761-7233
10621 Stormo Terry ◎
10626 Curtis Charles C ◎ 760-1906
10634 Hardesty Frank E ◎ 760-2756
10635 Keidel Joseph F ◎ 760-1006
SE 107TH AV INTERSECTS
10706 Frasier Howard E ◎ 760-1790
10715 Zabel Frank ◎ 760-6392
10718 Beck Edw A ◎
10721 Cook Wayne R ◎ 760-1805
10731 Treadwell Zada M Mrs ◎ 761-9455
10745 Rasmussen Darrell G ◎ 760-5758

DEPOT ST 1985

NE DAVIS ST—Contd
17004 Gross Jimmie J ◎ 254-1090

NE 176TH AV INTERSECTS
17650★Andrews Arth 252-2603
17660 Muckle James A Jr ◎ 252-3355
17661 Cheever Donald W ◎ 252-6406
17710 Williams Richd E ◎ 665-8980
17711 Parker Elmer ◎ 666-1331
17721 Rose James L ◎ 666-4690
17722 Lowery Mildred L Mrs ◎ 665-8525
17733 Vacant
17734 Lorber Kenneth A ◎
NE 178TH AV INTERSECTS
17800★Neibert Robt A ◎ 667-4206
17809★Horan Richd E ◎ 666-7557
17814 Brown Robt V ◎ 665-5834
17825 Gorsuch Geo E ◎ 665-5632
17830 Albus Glenn L ◎ 667-1292
17837★Sanders Earl
17848 Doern Robt E ◎ 665-2337
17909 Engel Loren D ◎ 665-9718
17912 Zelich Fred T ◎ 666-1934
17927 Vacant
17932 Graham Wm W ◎ 665-2671
17939 Lewis Sam L ◎ 666-2054
17950 Johnson Norbert J ◎ 665-5780
18001 Moody Michl J ◎ 665-5315
18008 Valder Jack ◎ 666-6165
18020 Thomas Maxine E 665-9526
18028 Vacant
NE 181ST AV INTERSECTS

559

NE 183D PL INTERSECTS
ZIP CODE 97230
18332 Elliott Elmer C ◎ 667-3551
18355 Fisher Toni J Mrs ◎ 667-1995
18356 Dunlap Wm L ◎ 661-7653
18411★Wilson Michl J ◎ 661-3509
18423 Vacant
18424 Bradshaw Joel L ◎ 665-2572
18436 Covert P A 667-7757
18445 Edwards Michl ◎ 661-4122
184TH PL INTERSECTS,
18504 Gillis John B Jr ◎ 661-7081
18520 Cassera Eric S ◎
18557 Bartino Donald ◎ 666-7931
18811 Miller Robt L ◎ 666-8965
18825 Coyle S
18828 Carline Donna E Mrs ◎ 666-6344
18834 Lucas Geo T ◎ 665-0680
18839 No Return
18850 Linhart Virginia Mrs ◎ 666-7256
18851★Cockrell Jas A ◎ 669-1321
18906 Moentenich Brian L ◎ 666-7518
18907 Ritchie Wm A ◎ 665-5625
18918 Decker Ralph N ◎ 665-2768
18921★Boeschs Carl ◎ 665-3853
18930★Mastrandrea Jeffrey 661-2408
18931 Hartwell Norman A ◎ 666-6614
18942 Willison James R ◎ 666-2803
18945★Robinson Larry L ◎ 661-0203
18958 Jorge Diane P Mrs ◎ 661-7263
18999 Grek Robt M Jr ◎ 661-1624
NE 190TH AV INTERSECTS
19002 Farmer Floyd S ◎ 666-5612
19009 Weber Johnny S ◎ 666-9265
NE 190TH PL INTERSECTS
19019 Miedema Jim ◎ 665-9372

561

NE 194TH AV INTERSECTS
19404★Vanderlinde Dexter W 665-5183
19420 Pursley Jas O ◎ 667-6601
19434 Moody John E ◎ 666-0931
NE 195TH AV INTERSECTS
19501 Rockwood Davis Elem School 665-9193
19516 Cray Michl E ◎ 661-4743
SE 196TH AV INTERSECTS
19616 Marshall Curtis L ◎ 665-5069
19636 Gerlitz Ronald E ◎ 665-6740
19639 No Return
NE 197TH AV INTERSECTS
19706 Pusey Herbert A ◎ 665-5874
19726 Fielder Anyce J Mrs ◎ 667-7793

557

19731★Mullenburg James B ◎ 661-6265
19736★Mitts D 666-3839
19745 Larson Karen G Mrs ◎ 665-8975
19816 Siniscal Edw E ◎ 665-6357
19819 Mayer Thos A 665-0007
19830 Wise Volney W ◎ 666-8289
19831 Heller Chresta ◎ 669-1702
NE 199TH AV INTERSECTS

605

DAY DR NW —(GRESHAM)-FROM 790 NW 6TH ST NORTH

ZIP CODE 97030
620 Walker Keith E ◎ 665-7307
635 Nelson Virginia M Mrs ◎ 665-3558
660 Mehner Alexander L ◎ 667-6930
675 Peterson Reuben L ◎ 666-4101
700 Hess Paul S ◎ 665-4694
735 Deaver Geo A 667-2122
770 Anderle Alf ◎ 665-6713
NW 8TH ST INTERSECTS
845 Culver Robt L ◎ 665-7771
850 Dirksen Roberta I ◎ 665-7000
865 Johnson Dennis S ◎ 661-6697
885 Mitchell Donald L ◎ 666-3169
905 Walker Wm K ◎ 666-7377

603

DAY PL SW —FROM SW 4TH ST SOUTH 2 WEST OF SW 7TH ST

ZIP CODE 97030

563

DEPOT ST (FAIRVIEW)—FROM DEAD END SOUTHWEST 1 NORTHEAST OF NE 1ST

ZIP CODE 97024
5 Moore Jeffrey B ◎ 666-8827
15 Secreast S D 667-6349
20★Heigl James ◎ 667-9405
40 Slayton S F 665-3724
55 Langley Charles A ◎ 665-6503
60★Gray Diane M 667-5150
NE 1ST ST INTERSECTS
NE 2D ST INTERSECTS
NE 3D ST INTERSECTS
330★Jones Steven I 666-9363
332★Lalicker Mick L ◎ 667-0996
340★Blaylock Eldon M 661-5383
342 Vacant
350 No Return
352 Ellis Daniel J 661-5390
NE 4TH ST INTERSECTS
400 Fairview North Apartments
Gaylord Carl D
410 Vacant
420 Ellis Melody M Mrs
430 Walth Jim 666-3381
440★Seballos Eugene C
450★Tommeso Trudi 666-2132
460 Hansel Ruby R Mrs
470 Martinez Francis A J 666-4667
NE 5TH ST INTERSECTS
500 Vacant
502★Hinesh Barbara J 665-7031
510 Gurula Phil H
512 Malanaphy Steven J 661-2587
520 Ring Abraham W 666-2301
522★Hancock Norma J 661-6759
530 No Return
532 Norton Robt M 661-2144
NE 6TH ST INTERSECTS
NE 7TH ST INTERSECTS

608

DEXTER AV NE (GRESHAM)—FROM 295 NE 24TH ST NORTH

ZIP CODE 97030
NE 24TH ST INTERSECTS
NE 27TH ST INTERSECTS
2401 Vacant
2410 Hill Stephen P ◎ 661-6882
2413 Vacant
2420 Vacant
2422 Winton Roddy ◎ 667-4019

609

DEXTER CT NE (GRESHAM)—FROM 3190 NE 5TH ST NORTH IN A SEMI-CIR

ZIP CODE 97030
415 Land Geo L ◎ 665-8514
445 Rodgers Galen F ◎ 666-3266
490 No Return
495 Kriens Donna M Mrs ◎
500 Larsen Gary D ◎ 665-1430
505 Lee Bobbie J ◎ 667-8062

563

DIVISION ST NE (FAIRVIEW)—FROM DEPOT ST NORTH 1 SOUTHWEST OF NE 7TH ST

ZIP CODE 97024

600

DIVISION ST NE (GRESHAM)—FROM N MAIN AV EAST 1 NORTH OF NE 10TH DR (ALSO KNOWN AS SECTION LINE RD)

ZIP CODE 97030
40 Postal Instant Press prntg 661-3848
48 Magic Mill wheat distr ret-whol 666-7188
50 Main Square The shopping center SUITES
52 Vacant
56 Diet Center weight control clinic 667-5833
64 Van's Old Fashion Burgers 669-1347
68 Meat Fair Market 665-1411
76 Video Corral 667-1889
80 Carowind Framing custom picture framing 661-4171
90 Papa Aldo's Take & Bake Pizza Shop 661-4282
T Shirts Plus 667-0646
NE ROBERTS AV INTERSECTS
210 Hood Village Apartments 666-8234
★Modin Carey
212 Hunt Carol A
214 Praska Charles L
216 Vacant
218 Hauser J Lynn
220 Boogaard Jim L
222 Vacant
224 Vacant
226 Byrd Carolyn 661-7710
228 No Return
230★Ludwa Patk D 665-8108
232★Howe Carol
234★Slater Ava L 666-2567
236★Land David A 669-0352
238 O'Steen Audrey H Mrs 667-7704
240 French Denise A 667-5433
242 Vacant
244 Khoury Nicola 661-5391
246 Vacant
248 Vacant
250★Bliss Donald A 667-1219
252★Anderson Shirley 661-6678
NE HOOD AV INTERSECTS
311 Willow Tree Care Center Inc rest home 667-8050
400 Jehovah's Witnesses Kingdom Hall 667-5731
405 Mac Fadden Chiropractic Clinic 661-0791
Mac Fadden David C chiro 661-0791
NE KELLY AV INTERSECTS

N MAIN AV (G)—Contd
202 Parker Club Tours travel agcy 667-2717
203 West Coast Telephone tel co 665-4739
205 Vacant
111 Premier Travel 667-1002
112 Cloudtree & Sun Inc gourmet cooking instn-utnsls 666-8495
117 Gresham Inn tavern 661-1403
120 Main Street Grocery 661-7877
121 Bear Toy The toys ret 661-5310
130 Pacific Crest Clothes fabrics 665-2701
137 M & M Restaurant 665-2626
M & M Cocktail Lounge 665-2626
NE 2D ST INTERSECTS
201 Mc Bains Drug Store 665-4298
202 Amiton Furniture Co 665-5095
205 Nicks Hallmark card gift shop 666-5476
209 Paulettas Lady's Apparel 665-2303
218 Don's Restaurant 666-5877
227 Storks Nest The baby boutique 666-6289
231 Gresham Business Machines & Stationery Inc ret sls 665-5131
234 Pacific Western Bank (Gresham Br) 667-0444
NE 3D ST INTERSECTS
305 Pistol Pete's Pizza 667-8300
319 Modern Custom Upholstery 666-1610
325 City Of Roses Printing & Rubber Stamps 666-6777
331 Franz Bakery 665-2152
336 Gresham Western Wear ret clo mn & wn 665-1921
NE 4TH ST INTERSECTS
410 Multnomah County Public Library (Gresham Br) 665-2222
436 Vacant
NE 5TH ST INTERSECTS
NW 5TH ST INTERSECTS
502 Walker Douglas L 667-1818
505 Tan Machine The 666-1700
507 Vacant
509 Herbs & I 666-7575
516 Luchesi Michl R ◎
532 Doty Wayne J cpa 667-2511
532b Travel Masters 665-0361
539 Deli Basket The restr 667-1055
559 Gresham Pet Supply 666-7854
589 Kids Count Two second hand store 667-3416
599 Phase One hair salon 661-0327
610 Dietl Darlene R Mrs ◎ 661-6564
622 Hays Robt L ◎ 665-3646
638★Norquist Curtis R 666-8373
664★Tillstrom Walter ◎ 665-3834
701 East Hill Four Square Church 661-4444
710 Vacant
722 Lucy Goosey Country Sampler quilting 669-1581
NW 8TH ST INTERSECTS
805 No Return
810 Hessel Wm A Jr ◎ 666-4448
811★Johnson Saml
823 Apartments
1 Herrera
2 Paull Albert
3★Dunlap Becky 665-3070
4 Seribner Ann
835 Sternberg Gordon A chiropractor ◎ 665-6412
NE 10TH DR INTERSECTS
1000 Rustys Resale apparel shop 661-1087
1010 Kirby Service Center 666-3728
NE DIVISION ST INTERSECTS

605

NW DIVISION ST INTERSECTS
1005 Walker Travel Service 666-3700
NW 11TH ST INTERSECTS
1109 Littlejohn H Ivan ◎ 665-4914
1120 Gresham High Sch (Home Economics Dept) 666-8033
1133 Ott Marguerite L ◎ 665-3636
NW 12TH ST INTERSECTS
1200 Gresham High School 666-8033
1209 Vacant
1227 George Kathryn L ◎
1255 Hi Fi Grotto restr 667-6133
NW 13TH ST INTERSECTS
1415 Vacant
1417 Spies W L
1431 Crowley Victor ◎ 665-4958
NW 14TH PL INTERSECTS
1453 Franklin Gary L ◎ 665-2072
1463 Nordland Viola H Mrs ◎ 665-8906
NW 15TH ST INTERSECTS
1512 Stubbs Edw D ◎ 665-4446
1575 Gresham Mall Cleaners & Laundry 666-1148
1595 Mister Edd's Hair Styling 665-1122
1605 Perfect Look Hair Fashions 666-1314
1675 Robison's Ed Mobil Service 665-0413
E BURNSIDE RD INTERSECTS
W BURNSIDE RD INTERSECTS
1820 Aspen Highland Apartments 665-1438
★Bloodgood Linda
1840 Engle Carol Lee
1860 Hammon R L
1870 Morseman Ronald
1880★Miller Donald
1890 Carlson Robt
NE 19TH ST INTERSECTS
NE 20TH ST INTERSECTS
2000★Adkinson Donna
2005★Haddox Curtis
2007★Hector Exparza
2010★Pacher Modis
2015 Warner Paul M 661-5721
2020★Stout John
2025 Sampson Margt E Mrs ◎
2030 Moore Myrna J ◎ 667-6790
2040★Fore Aileene
2050★Hilton Virginia
2060 Street Robt P ◎ 665-4877
2135 Caplener Michl L ◎ 666-3308
2140 Jacobson Wm L ◎ 667-4766
2145 Henneman Philip W ◎
2155 No Return
NW 22D AV INTERSECTS
NE 22D ST INTERSECTS

603

MAIN AV S (GRESHAM)—FROM W POWELL BLVD SOUTH 1 WEST OF NW 1ST ST

ZIP CODE 97030
115 Jaycee (Ball Park)
219 City Of Gresham Pub Wks Dept (SHOP) 661-3000

608

MAIN CT SE (GRESHAM)—FROM 22414 SE SALMON CT EAST

ZIP CODE 97030
SE 225TH AV INTERSECTS
22502 Furlin Antonio A ◎ 665-8051
22509 Lacey Wm K ◎ 666-4379
22512 Stahl Walter E ◎ 665-8038
22517 Olson Florence I ◎ 666-6597
22522 Boyd Alan V ◎ 666-2605
22532 Mc Gavran James W ◎ 665-0602
SE 226TH AV INTERSECTS
22600 Johnson Elmo ◎ 666-4733
22620★Bialostosky Julias ◎ 661-4331

607

MAIN DR SE (GRESHAM)—FROM 1035 SE 205TH DR EAST

ZIP CODE 97030
20524 No Return
20632 Williams Albert C ◎ 666-6510
20644 Martinez Emma Mrs ◎
SE 207TH AV INTERSECTS
20704 Hodson Douglas G ◎ 666-8097
20709 Eisley Richd E ◎ 667-9105
20710 Howard Bettie ◎
20715 Weinmann Fred ◎ 666-4244
20716 Stolin Loren J 667-9344
20720 Vacant
20724 Dailey Randy A ◎ 667-4727
20725 Hobby House The 666-4775
Troutner Larry L ◎ 666-4775
20729 Currier Chas A ◎ 667-4808
20732 Vacant
20744 Peck Lyle R ◎ 661-1348
SE 208TH AV INTERSECTS
20816 Redell Robt H ◎ 661-6077
SE 209TH AV INTERSECTS
20909 Darlins Dress Shop retail
★Cutsforth Anthony ◎ 666-7639
20918★Comett Louise A ◎ 669-1153
20921 Gleason Wm D ◎ 666-9610
20926 Sifri Michl C ◎ 666-1358
20931 Stieffold Terry D ◎ 667-5291
20938 Milburn R C ◎
20943 Kennedy Phillip 661-4618
20948 Mc Namara Richd A ◎ 661-1277
21007 Hubbard Howard C ◎ 666-3135
21009 No Return
21010★Woods Gregory D Rev 661-0289
21018 Vacant
21030 Rader Delbert L ◎ 665-9315
21035 Blair Richd E Jr ◎ 667-4534
21040 Wicht Mabel Mrs ◎ 665-9773
SE 211TH AV INTERSECTS

563

MAIN ST (FAIRVIEW)—FROM NE 223D AV NORTHWEST 7 NORTH OF NE HALSEY ST

ZIP CODE 97024
60 Heslin Edw H ◎
NE 1ST ST INTERSECTS
100 Rees W Adelbert ◎ 665-8040
110 Lanier Clossen
120 Mc Murry Larry A ◎ 666-5068
130 Shearer Ronald W ◎
NE 2D ST INTERSECTS
200 Hondy Philip L ◎
215 Fairview Elementary School (Reynold School Dist 7) 667-2954
220 No Return
240 Culwell Gisele J Mrs ◎ 665-9341
NE 3D ST INTERSECTS
300 Tibbett Roy R 665-7609
305★Ross Albert 666-4711
320 Ray Clarence A ◎ 665-9542
325 Rohman Adlor A ◎ 665-3747
330 Gibson Donald 661-5971
345★Martin Larry L ◎ 661-6120
350 Bailey Ann Mrs ◎ 667-3707
355★Mc Gill Harvey C 666-5468
NE 4TH ST INTERSECTS
400 Jenkins Orlo P ◎ 666-1087
405★Gibson Donald R
415 Calderwood Donald J ◎ 666-6911
420 Benfield Clifford J ◎ 665-0948
425 Mc Daniel Nettie J Mrs ◎ 665-0830
430 Vacant
435 Dalton Karen Mrs ◎ 666-7211
445 Cummings Lawrence W ◎ 665-9381
450 Lenox Aretha Mrs ◎ 665-6550
NE 5TH ST INTERSECTS
500 Foidel Rodger D ◎ 665-1280
510★Wydolla Marvin
515 Hoppell Douglas 661-1572
525★Rockwood Margt E ◎ 667-9886
530 Tucker Bert S ◎ 665-7716
535 Hankel Esther Mrs
550★Sutherland S 666-3031
555 Starbuck David R ◎ 665-9245
NE 6TH ST INTERSECTS
605★Frank Cheryl
610 Anderson Richd S ◎ 665-5298
620★Carey Julie D
630 No Return
635★Lewis Grover E ◎ 661-5189
645 Ruble Webster M ◎ 665-6422
650 Bruffett Bruce W ◎ 667-9611
NE 7TH ST INTERSECTS
700 Singer Ernest W ◎ 665-6773
705 Williams Ron 667-6621
710 Moore Kevin J ◎ 666-8703
720★Doney Cheryl L Mrs day care 665-9430
730 Taylor Keith D ◎
735 Jackson Wm R ◎ 665-7928
740 Williams Ruby Mrs ◎

500

MAIN ST SE —FROM 1500 SE 96TH AV EAST 1 NORTH OF SE MARKET ST

ZIP CODE 97216
SE 96TH AV INTERSECTS
10000 Professional Center Two O Five ofc bldg
SUITES
101 Matschek J Norman dentist 254-5593

1ST ST NE 1980

610

1ST PL SE (GRESHAM)—FROM 3645 SE EL CAMINO DR NORTH

ZIP CODE 97030
3855 Lundbom Paul A ◎ 665-0729
3905 Vacant
3960 Vacant
NE BARNES AV INTERSECTS
3990 Gardner Larry F 665-5226
NE PALOMA AV INTERSECTS
4020 Walter Charles H ◎ 667-7042
4035 Long David A ◎ 666-1241
4040 Deiss D
4075 No Return
4080★Larson Dale R ◎ 667-9308
4095★Doyle Danl P ◎ 665-3987
4125★Cruser Wendell R ◎ 667-1998

563

1ST ST NE (FAIRVIEW)—FROM 60 DEPOT ST SOUTHEAST

ZIP CODE 97024
40 Tallman Wm E ◎ 667-6337
90 F City Shops 665-9320
MAIN ST INTERSECTS
185 Felker Chism ◎ 665-8734
CEDAR ST INTERSECTS

642

1ST CT NW (GRESHAM)—FROM 80 NW HARTLEY AV EAST IN A SEMI-CIR

ZIP CODE 97030
3600 Hegstad Guy G ◎ 666-7235
3620★Ceglie Steph L ◎ 665-1237
3631 No Return
3640 Harding Glenn P ◎ 665-8944
3651 Romero Edgardo ◎ 665-1584

603

1ST ST NW (GRESHAM)—FROM N MAIN AV WEST 1 NORTH OF W POWELL BLVD

ZIP CODE 97030
11 Office Building
201 Vacant
202 Tallman Justin C lwyr 666-9403
203 Lewidge Garth S lwyr 667-2404
204 Vacant
205 Vacant
206 Vacant
207 Vacant
208 Vacant
17 Hair Tailors beauty shop 667-9206
25 His Sound audio equip & musical instr 665-9477
27 His Sound (Annex)
29 Egner Richd Jr lwyr 665-4186
33 Gresham Book Exchange 661-0600
55 Me-Re Thrift Shop genl mdse used 665-7530
75 Gresham Athletic Club 665-2126
NW MILLER AV INTERSECTS
109 Natural Therapeutic Center 666-5879
★Polley David W
121 Morris Robt D dentist 665-3500
125 Petterson Dean B dentist 667-1001
135 Morrison Center East County 667-2626
155 Floyd's Fine Foods mobile lunch wagons 665-5510
Splawn Floyd B ◎ 665-5510
219 De Echo's hair salon 667-6564
224 Ferris Wm S ◎ 665-5327
346 Saint Henry Catholic Church 665-9129
347 Mosbrucker Jacob Rev 665-1982
393 Vacant
395 Saint Henry Religious Educ Center 666-3791
NW AVA AV INTERSECTS
451 St Henry Youth And Family Center 666-3791
★Flach Carl Rev
510 Cary Richd R ◎ 667-3631
519 Berlik Pauline M Mrs ◎ 665-1597
541★Hale Robt E ◎ 661-4349
552 Cox Phillip W 665-9710
NW NORMAN AV INTERSECTS
612 Johnathan
622 Blair Anne L Mrs ◎ 666-2237
625★Kotzian Terry 665-2083
630 Luttropp James W ◎ 665-4649
667 Biddle Arth J ◎
700 Vacant
715★Majors James S ◎ 666-7271
NW SLERET AV INTERSECTS
735 Ide Erwin H ◎ 665-3430
745 Schneider Robt G ◎ 665-2230
760 Petitmermet Ernest A ◎ 665-6802
811 South Etta M Mrs ◎
827 Eledge Grover A ◎
NW WILSON AV INTERSECTS
901 Manwiller David W ◎ 667-5851
913 Caldwell Clyde R ◎ 666-1796
965 Seversen Jacob A ◎ 666-8057
1001 Rowell Ron D ◎ 667-5952
1002 Lewis Charles W ◎ 665-0981
1004 Hammond Dorothy L ◎
1027 Vacant
1043 Wright Terry L
NW FLORENCE AV INTERSECTS
1107 Vacant
1130 Caldwell Michl D ◎ 667-8134
1133 Slaughter Dennis Masonry Inc mason contrs 667-9790
Slaughter Dennis R ◎ 665-3936
1202 No Return
1213 Perry Wm T ◎ 666-5639
1226 Noel K Lynn Mrs ◎ 665-4316
1229 Irving Michl L ◎ 665-4408

604

NW WALLULA AV INTERSECTS
1335 Vacant
1340★Mc Clung W R 666-3355
1355 Reseburg Fred ◎ 665-2907
1360★Lachner E J ◎ 665-3628
1390 Thorsell Walter K ◎ 666-4689
NW CHASTAIN CT INTERSECTS
1400 Beller Clyde P ◎ 666-1450
1420 Opoka Arnold S ◎ 665-2036
1435 Webber Walter W ◎ 665-0754
1455 Martin Carol L Mrs ◎
NW TOWLE AV INTERSECTS
1501 Bowers Betty P Mrs ◎
1545 Leamon Willard K ◎ 661-1241
1560 Preskey Herbert A bkpr serv ◎ 665-1253
1575 Dailey Lasure L ◎ 665-3282
1580 Anderson John W Jr ◎ 665-6878
1582 Vacant
1595 Lovely Robt F ◎ 666-7445
1610 Bruss Leo ◎ 665-2609
1615★Megesee Harold
1620 Faubion Elmer J ◎ 665-7221
1650 Hergert Aurelia Mrs ◎ 665-8753
1670 Felker Wm C ◎ 665-0467
1675★Rolsch Violet V ◎ 665-5838
1680 Brownscombe Ralph H ◎ 666-6937
1685 Stegall Wm C ◎ 665-4324
1690 Young Charles M ◎ 665-7857
BELLA VISTA AV INTERSECTS
2021 Garrison Michl R 667-1162
2031 Wandtke Herbert E ◎
2070 Scofield Raymond E ◎ 666-2698
NW WONDERVIEW AV INTERSECTS
2135 Browning John A Jr ◎ 665-6855
2175 Perry Leslie R ◎ 666-6486
2195 Tucker Burdette E ◎ 667-6265
NW BIRDSDALE AV INTERSECTS

642

NW PLEASANT VIEW AV INTERSECTS
3425 Bates P C 667-6077
3470 Domke Eugene H ◎ 667-5239
NW HARTLEY AV INTERSECTS
3705 Brischle James H ◎ 666-8507
3720 Alexander Thos J ◎ 666-5497
3725 Wood Donald C ◎ 665-8673
NW ROYAL AV INTERSECTS
3815 No Return
3845★Sempio Julianna N Mrs ◎ 667-0839
3990 Portland Adventist Elementary School 665-4102
4011★Cochran Dorothy Mrs ◎ 667-1564
4035 Vacant
4067★Shafer Ruthi E ◎
4099 Takashima Ruth ◎
NW GIESE AV INTERSECTS
4185 Stewart Ivan M ◎ 665-0674
NW NANCY PL INTERSECTS

602

1ST ST SE (GRESHAM)—FROM 85 SE LINDEN AV EAST

ZIP CODE 97030
790 Burgess Hazel L Mrs ◎ 665-7848
SE JUNIPER AV INTERSECTS

601

E POWELL BLVD INTERSECTS
1905 Sullivan Sally
1915 Vacant
1975 Vacant
2019 Zandell Oil Co oil distr 665-5693
2051 Vacant
2053 Blakely O B Construction Co 666-2505
2176 Mount Hood Oil Co Inc fuel oils 665-2188
E BURNSIDE RD INTERSECTS

609

2331 Gaskill Steph M Jr 666-6847
2341 O'Keefe Martin
2351 Smith Ben W 666-4827
2361 Vacant
2381 No Return
2391 Nelson Rose 667-5996
2401★Farrell Michl P 661-5044
2441 Gradin Elton A ◎ 665-2214
2650 Vacant
2660 Leymaster Dale G ◎ 666-1116
2670 Jones Russell D ◎ 665-2563
2680 Sweeney Margt R Mrs ◎ 666-7751
NE VILLAGE SQUIRE AV INTERSECTS
2800 Meyers Square Apartments 667-9161
1★Jackson Darren
2★Carter Russell D 666-5775
3★Roark James
4★Wayman Leo
5★Kremer Nancy
6★Barber Patricia
7★Smith Chris V 667-3742
8★Mc Causland Cath
9★Daugherty Betty
10 Fox Barbara 666-4990
11★Renteria Charles
12 Scarberry John 661-0213
13★Russell Pauline
14★Hillend David V 661-1394
15★Trainor Vedah
16★Thompson Jim
17★George Ralph
18★Beyers Gertrude
19 Hill Myrtle 665-3493
20★Atkin Gary
21★Fawver Steven 665-9517
22★Davis Jerry
23 Ray Kenneth M 665-3676
24★Kuntz Mark
25★Mc Kay John
26 Berreth Annie M 667-1911
27 Dixon Nancy
28★Falkenstein Tina
29★Love Allen
30★Palmer Scott
31★De Courcey Paul
32★Davis Saml
33 Robinson Gregg
34 Bund Donald L 661-2080
35 Tanaka Kath 665-0995
36★Empson Lillie I 665-1268
37★Jansen Wm

563

2D ST NE (FAIRVIEW)—FROM 200 MAIN ST SOUTHEAST

ZIP CODE 97024
100 Casebeer Dwight F ◎
125 Nixon Elman E ◎ 666-6586
135★Burg Dennis R ◎ 666-6240
155★Chewning Susan 667-2270
CEDAR ST INTERSECTS
HARRISON ST INTERSECTS
180 Vondershaar
365 Wills Melvin ◎ 665-4428
385 Wheeler Jesse ◎ 665-0076
LINCOLN ST INTERSECTS
NE 223D AV INTERSECTS

300

2D ST NE (TROUTDALE)—FROM 100 SE HARLOW ST WEST

ZIP CODE 97060
302 Better Built Canopy Co 667-8139
315 J & J Chemical
Pace Furniture Mfg Co 665-8647

603

2D ST NW (GRESHAM)—FROM N MAIN AV WEST 2 NORTH OF POWELL BLVD

ZIP CODE 97030
20 Cascade Graphic Center Inc
30 Porthole Art Studio & Gallery 665-1640
50 Gresham Health Spa (Addl Sp)
52 Gresham Gun Works sls & serv 665-3247
60 Hansen M Keith dentist 665-8096
70 Allen Thos W acct 665-4114
80 Image Makers Hair Styling 665-3291
90 Stone Wm E dentist 665-4795
NW MILLER AV INTERSECTS
105 Espinoza Alfredo 666-8937
225 Four Wheel Drive & R V Customizers wldg 666-7041
239 Rockwood Plmb (Annex)
241 Rockwood Plmb (Annex)
245 Rockwood Plumbing contrs 665-2431

602

2D ST SE (GRESHAM)—FROM 201 SE ROBERTS AV EAST

ZIP CODE 97030
210★Graham Nancy L Mrs
220 Fugman Sandra C Mrs 666-7911
225 Mc Devitt Bernard J ◎ 665-1595
230 Deardorff Maxine Mrs ◎ 666-8109
295 Vacant
SE HOOD AV INTERSECTS
303 Vacant
305★Morrison John L 667-0286
320 Vacant
322 Vacant
337 Wright Wayne F ◎ 665-4296
340 Carter Robt A 666-3550
350 Davis Wilbur L ◎ 665-9370
SE BEECH AV INTERSECTS
405 Kane Clary A Mrs 665-5689
420 Under Constn (4 Hses 420-26)
450 Shore Thos J 666-8438
490 Dickinson Donald A ◎ 665-3511
SE KELLY AV INTERSECTS
550 Romano Dominic J 665-1559
SE ELLIOTT AV INTERSECTS

601

SE CLEVELAND AV INTERSECTS
920 Coates Alf F ◎ 665-2534
940 Wertman Larnce L Mrs ◎ 665-2500
SE MORLAN AV INTERSECTS
1025★Vinsonhaler Michl L ◎ 667-1079
1050 Olson Julia Mrs ◎ 665-5541
1075 Goosic Beatrice Mrs ◎ 665-1449
1125 Lang Clarence A ◎ 665-2475
1130 Severs Parker T ◎ 665-9474
SE EVELYN AV INTERSECTS
1145 Schaeffer Geo R ◎ 666-3536
1175★Littlejohn Kevin W ◎ 661-2385
1210 Norris Cecilia M Mrs ◎ 666-1064
1220★Olson Steven T 667-6907
1225 Lucky Paul D ◎ 665-6910
1255 Davidson Gary L ◎ 666-7925
SE LIBERTY CT INTERSECTS
1270 Bourgo Robt M ◎ 665-7727
1285 Marleau James ◎ 665-3962
1315 Roche Harvey E ◎ 666-7464
1320 Bates Irene L Mrs ◎ 666-8152

609

3101 Vacant
3119 Under Constn
3192 Under Constn

300

2D ST SE (TROUTDALE)—FROM BUXTON RD EAST 1 SOUTH OF E COLUMBIA ST

ZIP CODE 97060
SE DORA ST INTERSECTS
202 Masonic Hall
Fairview Lodge No 92 (Af & Am)
Assembly No Seventy Eight (Order Of Rainbow Girls)
Lodge No Eighty (O E S)
235★Hendrickson Carole Lee Mrs 666-6264
SE HARLOW ST INTERSECTS
342 Frick Michl R ◎ 666-6396
SE KIBLING ST INTERSECTS
402 Apartments
1★Bowers Keith
2 Weimer Ken M 667-5171
3★Sasek M
4★Gering Ben A 667-4672
5 Vacant
6 Vacant
7★Frey Mark
8 Vacant
11★Tucker Edw E
443 Whitney David L ◎ 665-5905

300

2D ST SW (TROUTDALE)—FROM BUXTON RD WEST 1 SOUTH OF E COLUMBIA ST

ZIP CODE 97060
105 Vacant
133 Thornton Douglas S ◎ 665-0798

642

2D ST SW (GRESHAM)—FROM 80 SW HARTLEY AV EAST

ZIP CODE 97030
3470 Johnson Richd W ◎ 667-5892
3490 Murray Gary W 667-3839
3520★Leng Juanita H ◎ 661-1984
SW PLEASANT VIEW AV INTERSECTS
3550★Canan Robt H ◎ 665-7038
3557 Vacant
3580 Carlston Gregory S ◎ 667-0344
3597 Vacant
3610★Worrel Wm B ◎ 665-9501
3630 Nelson Rod
3637 Rivera Regulo 667-1299
3667 Wheeler De Wilton 665-5760
3670★Lower Roy E ◎ 666-2577

600

3D ST NE (GRESHAM)—FROM N MAIN AV EAST 2 NORTH OF E POWELL BLVD

ZIP CODE 97030
15 Great Haircuts Inc 665-6148
25 Davis Printing Co 667-3433
31 Billiards 'n Bagels 666-5338
NE ROBERTS AV INTERSECTS
133 Salisbury R Steven dentist 665-7600
207★Jones Cynthia L
209 Heard Bernice Mrs 665-5677
215 Vacant
NE HOOD AV INTERSECTS
333 Executive Building
Adams & Jennings lwyr 665-9182
Young Freeman & Jennings lwyrs 665-4176
Clean Vac Systems Inc dlr 667-4147
Bell Tully D Inc business consultants 667-4147
405 Vacant
NE KELLY AV INTERSECTS
501 Apartments
1★Marker Roberta V 666-3486
2★Dean Terese
3 Miller Donnel
4★Hart Ida
520 Perry Frank R ◎ 665-2931
524 Vacant
525★Brissett Benj T 666-4232
543 Mc Conkie May Mrs ◎ 665-4531
NE ELLIOTT AV INTERSECTS
607 Vacant (3 Hses 607-611)
615 Jensen Eug P ◎ 666-2057
NE LINDEN AV INTERSECTS
710 Mossman Dale H ◎ 666-2640
795 Franks Albert
NE JUNIPER AV INTERSECTS
815 Aylsworth Wm C ◎ 665-5325
835 Carrell Lillian M Mrs ◎ 666-1445
850 Butler Charles E ◎ 665-5743
855 Forester Gladys A ◎ 665-3609
885 Rutledge Philip D 665-6524
905 Shaver Rick R 667-4680
955 Lampert Opal J Mrs ◎ 665-9365

609

2910 Barbee Deanna 665-5819
2925 Franklin Timothy W cement contr ◎ 665-8498
2930 De Haas Lucille L Mrs ◎
2945 Nash Gary V ◎
3015 Jacobsen Harvey A ◎ 667-6640
3020 Copeland Scott ◎ 667-4769
3025 Herring E Truman Rev ◎ 665-6295
3080 Vacant
3085 Blake Ronnie ◎ 665-7283

610

NE SCOTT AV INTERSECTS
3661 Vacant
3672 Schmidt R Gordon ◎ 666-6296
3683★Kassing David D ◎
3716★Tuke D E
NE LA MESA CT INTERSECTS
3728 Vacant
3752★Anderson J M 666-7449
3784 Osburn K
3825★Snell V M ◎ 665-4819
3826 Bassitt Bruce W ◎ 667-1319
3840 Vacant
3849 Wentlandt
3877 Vacant
3882 Vacant
3891★Smay James B ◎ 661-3832
3898 La Mar Richd A ◎ 663-0868
3914 Niehues
NE PALOMA AV INTERSECTS
3936 Northrop
4007 Mc Cann J
4018 Vacant
4021 Scott P
4030 No Return
4055 Vacant
4062 Vacant
4069 Catto Dale E ◎ 665-0810
4073 Davis Wm B ◎ 666-8701
4074 Vacant
4096 Vacant
NE EL CAMINO CT INTERSECTS
4129 Vacant
4130 Vacant
4131★Erzel R J ◎ 665-2338

Fairview Elementary School
225 Main Street
Fairview, OR 97024

Inquiry Number: 4560208.3
March 09, 2016

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

3/09/16

Site Name:
Fairview Elementary School
225 Main Street
Fairview, OR 97024

Client Name:
GeoDesign Inc.
15575 SW Sequoia Parkway
Portland, OR 97224

EDR Inquiry # 4560208.3

Contact: Steven Vandecoevering

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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:

Site Name: Fairview Elementary School
Address: 225 Main Street
City, State, Zip: Fairview, OR 97024
Cross Street:
P.O. # ReynoldsSD-2-02
Project: Fairview Elementary School
Certification # 8E33-47A3-9882

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results
Certification # 8E33-47A3-9882

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

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225 MAIN ST

FAIRVIEW, OR 97024

PROPERTY

Year Built	1925
Description	MISCELLANEOUS
Building Area	36,219 sq ft
Neighborhood	FAIRVIEW
Jurisdiction	Fairview / Multnomah
Elevation	130 ft (approximate)
Owner	SCHOOL DIST NO 7
Owner Address	1204 NE 201ST AVE FAIRVIEW, OR 97024
Related Accounts	▼

Assessor

Property Values (2015)

Market Value	$3,602,900.00
Assessed Value	$0.00

Taxes (2015)

Property Taxes	$0.00
Total Taxes	$60.00

Schools

Attendance Area

District	REYNOLDS (#7)
Elementary School	FAIRVIEW ES,
Middle School	REYNOLDS MS,
High School	REYNOLDS HS

For more information about school attendance areas go to pps.net or browse the PPS School Finder

225 MAIN ST

FAIRVIEW, OR 97024

ASSESSOR

Address	225 MAIN ST
Address2	FAIRVIEW, OR 97024
City	FAIRVIEW
Property ID	R160667
Tax Roll	FAIRVIEW, BLOCK 3&4 TL 100
Use	PUBLIC BLDG
Block	3&4 TL 100
County	Multnomah
State ID	1N3E28DA 100
Alt Account Number	R268900450
Map Number	2852 OLD
Related Accounts	▼
Land Type	COMMERCIAL LAND
Total Land Area	4.78 acres
Assessor Update Date	03/07/2016 7:27AM

Owner

Name	SCHOOL DIST NO 7
Type	OWNER (PRIMARY)
Address	1204 NE 201ST AVE
City	FAIRVIEW
State	OR
Zip Code	97024

Sales History & Deed

Type	INST
Instrument	BP08380560
Sale Price	$0.00

Improvements

Improvement Type	MISCELLANEOUS
Improvement Value	$2,972,850.00
Building Class	PUBLIC BLDG
Actual Year Built	1925
Number Of Segments	2

Segment Number	Segment Type	Class	Area Sq Ft
1	MAIN		30951
2	BASEMENT M/S		27613
1	MAIN		1500
1	SURFACE PARKING	1	4150
2	FENCE	2	
3	CONCRETE	2	1540
1	MAIN		960
2	MAIN		960
3	MAIN		1848

Assessment History

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2015	$2,972,850.00	$630,050.00	$0.00	$3,602,900.00	$3,602,900.00	$0.00
2014	$3,196,620.00	$677,470.00	$0.00	$3,874,090.00	$3,874,090.00	$0.00
2013	$3,196,620.00	$677,470.00	$0.00	$3,874,090.00	$3,874,090.00	$0.00
2012	$3,400,660.00	$720,710.00	$0.00	$4,121,370.00	$4,121,370.00	$0.00
2011	$3,208,170.00	$679,920.00	$0.00	$3,888,090.00	$3,888,090.00	$0.00
2010	$3,208,170.00	$679,920.00	$0.00	$3,888,090.00	$3,888,090.00	$0.00
2009	$3,208,170.00	$679,920.00	$0.00	$3,888,090.00	$3,888,090.00	$0.00
2008	$3,208,170.00	$679,920.00	$0.00	$3,888,090.00	$3,888,090.00	$0.00
2007	$3,055,400.00	$647,540.00	$0.00	$3,702,940.00	$3,702,940.00	$0.00
2006	$3,055,400.00	$647,540.00	$0.00	$3,702,940.00	$3,702,940.00	$0.00
2005	$3,055,400.00	$599,580.00	$0.00	$3,654,980.00	$3,654,980.00	$0.00
2004	$2,777,630.00	$545,070.00	$0.00	$3,322,700.00	$3,322,700.00	$0.00
2003	$2,777,630.00	$545,070.00	$0.00	$3,322,700.00	$3,322,700.00	$0.00
2002	$2,670,800.00	$524,100.00	$0.00	$3,194,900.00	$3,194,900.00	$0.00

2001	$2,670,800.00	$524,100.00	$0.00	$3,194,900.00	$3,194,900.00	$0.00
2000	$2,363,540.00	$463,810.00	$0.00	$2,827,350.00	$2,827,350.00	$0.00
1999	$2,294,700.00	$450,300.00	$0.00	$2,745,000.00	$2,745,000.00	$0.00
1998	$2,185,400.00	$428,900.00	$0.00	$2,614,300.00	$2,614,300.00	$0.00
1997	$1,968,100.00	$408,500.00	$0.00	$2,376,600.00	$2,376,600.00	$0.00

Tax Districts

Code	Description
101	PORT OF PORTLAND
125	CITY OF FAIRVIEW
143	METRO
164	EAST MULT SOIL/WATER
170	MULTNOMAH COUNTY

Tax History

Year	Property Tax	Total Tax
2015	$0.00	$60.00
2014	$0.00	$60.00
2013	$0.00	$60.00
2012	$0.00	$50.00
2011	$0.00	$50.00

Tax Maps

Quarter Section	Size
1n3e28da (Current Property)	79.4 KB
1n3e28	148.5 KB
1n3e28a	110.3 KB
1n3e28aa	207.2 KB
1n3e28ab	167.7 KB

City of Fairview Zoning

- Agricultural Holding (AH)
- General Industrial (GI)
- Light Industrial (LI)
- Town Center Commercial (TCC)
- Corridor Commercial (CC)
- Residential (R)
- Residential (R-10)
- Residential (R-7.5)
- Residential/ Manufactured Home (R/MH)
- Residential MultiFamily (R/MF)
- Res/MultiFamilyTownhouse Overlay (R/MF/TOZ)
- Res/ South Fairview Lake Design Overlay (R/SFLD)
- Residential Community Service Parks (R/CSP)
- Village Commercial (VC)
- Village Mixed Use (VMU)
- Village Flex (FLX)
- Village Office (VO)
- Village Apartments (VA)
- Village Townhouse (VTH)
- Village Single Family (VSF)

City of Fairview
1300 NE Village Street
Fairview, OR 97024
(503) 665-7929
www.fairvieworegon.gov

N W E S

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSE ONLY

NE1/4 SE1/4 SEC.28 T.1N. R.3E. W.M.
MULTNOMAH COUNTY
1" = 100'

SEE MAP IN 3E 28

IN 3E 28DA
FAIRVIEW

CANCELLED NO. 3600

1/16 COR. APPROX.

APPROX. 1/4 COR.

INITIAL POINT FAIRVIEW

NOTE: FAIRVIEW SUBDIVISION BDRY LINE IS NOT ESTABLISHED BY SURVEY DESCRIPTION.

S68°W 1300'

DEPOT ST.

FIRST ST.

SECOND ST.

THIRD ST.

FOURTH ST.

FIFTH ST.

SIXTH ST.

FAIRVIEW AVE.

RD. 1267

MAIN

CEDAR

HARRISON

FAIRVIEW

VACATED ORD. NO. 6-70 9-16-70

SEE CS 33261

SEE CS 34558

SEE CS 24261

SEE CS 34061

SEE CS 27485

SEE CS 14961

SEE CS 15143

SEE CS 14980

SEE CS 13822

SEE CS 15508

SEE CS 17727

SEE CS 10019

SEE CS 50545

SEE CS 15254

SEE CS 17601

3601 PP 1 2004-51

3602 2004-51 2

1/16 COR. APPROX.

1/16 COR. APPROX.

240

SEE MAP IN 3E 28DB

SEE MAP IN 3E 27CB

SEE MAP IN 3E 28DD

IN 3E 28DA
FAIRVIEW

Oregon Department of Environmental Quality
Heating Oil Tank

Summary Information

General Site Information

26-01-6614

Basic Incident Information

Site Name:	Heating Oil Tank	Received Date:	08/02/2001
Address:	201 MAIN ST	Status:	UNASSIGNED
	FAIRVIEW, 97024	Tank Type:	Home Heating Oil Tank
County:	MULTNOMAH		
		UST Facility Id:	
Project Manager	N/A - Currently Unassigned.		

Assessment Information

Cause of Release:	UNKNOWN	Source of Release:	NOT REPORTED	Discovery Method:	DECOMMISSIONING

Media Effected	Contaminants Released
>Soil	>Heating Oil

Management Information

Release Stopped Date:	Cleanup Start Date:	Cleanup End Date:
07/23/2001	08/02/2001	

Oregon Department of Environmental Quality
Headquarters: 811 Sixth Ave., Portland, OR 97204-1390
phone: 503-229-5696 or toll free in Oregon 800-425-4011
TTY: 503-229-6993 FAX: 503-229-6124

Oregon
John A. Kitzhaber, M.D., Governor

Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

March 31, 1999

RODNEY MYNATT
35 THIRD STREET
FAIRVIEW, OR 97024

Re: MYNATT, R.
File No. 26-99-0066

Dear Mr. Mynatt,

The Department of Environmental Quality has completed its review of the information submitted to date concerning the heating oil underground storage tank (UST) decommissioning and cleanup conducted at 35 Third Street, Fairview, OR 97024. The Department has determined that the cleanup appears to have met the requirements of Oregon Administrative Rules (OAR) 340-122-205 through 340-122-360 and that no further action is required at this time.

This determination is a result of our evaluation and judgment based on the regulations and facts as we now understand them, including:

1. A heating oil tank was decommissioned by removal and transported to and disposed of at Metro Metals Northwest located in Portland, Oregon.

2. Approximately 16.7 tons of diesel contaminated soil was excavated and thermally treated at the TPS Technologies located in Portland, Oregon.

3. Approximately 125 gallons of rinsate and sludge was removed from the tank and transported to Harbor Oil, Inc., for recycling and disposal.

4. Ground water was not observed in the tank excavation cavity during decommissioning.

5. After soil excavation was complete, two (2) confirmation soil samples collected from the bottom of the tank excavation indicated that TPH-Dx concentrations were below method reporting limits (ND).

The Department's determination will not be applicable if new or undisclosed facts show that the cleanup does not comply with the referenced rules. The Department's determination also does not apply to any conditions at the site other than the release of heating oil specifically addressed in the report.

Please note that pursuant to OAR 340-122-360(2), a copy of your report must be retained until ten (10) years after the first transfer of the property. We recommend that a copy of this information be kept with the permanent property records.

Your efforts to comply with the regulations to ensure that your property has been adequately cleaned up have been appreciated. If you have any questions, please feel free to contact me at (503) 229-6155.

Sincerely,

Jack Whalen, R.P.G.
UST Cleanup Specialist
Northwest Region

cc: Paul Wittbrodt
Petroleum Constructors
P.O. Box 325
Troutdale, OR 97060

Oregon Department of Environmental Quality
Heating Oil Tank

Summary Information

General Site Information

26-99-0066

Site Name:	Heating Oil Tank	Received Date:	01/19/1999
Address:	35 THIRD ST	Status:	CLOSED
	FAIRVIEW, 97024	Tank Type:	Home Heating Oil Tank
County:	MULTNOMAH		
		UST Facility Id:	
Project Manager	N/A - Project Completed.		

Basic Incident Information

Assessment Information

Cause of Release:	NOT REPORTED	Source of Release:	TANK	Discovery Method:	DECOMMISSIONING

Media Effected	Contaminants Released
>Soil	>Heating Oil

Management Information

Release Stopped Date: 01/15/1999	Cleanup Start Date: 01/15/1999	Cleanup End Date: 03/31/1999

Work Reported Information

Work Reported	Reported Date
Tank Decommissioning	3/23/1999
Other	3/19/1999
Site Assessment	3/19/1999

Site Documents

Click the link to view the document.

File Name	Category	File Size MB	Upload Date
26-99-0066.pdf	Closure Letter	0.0833	9/30/2008

Oregon Department of Environmental Quality
Headquarters: 811 Sixth Ave., Portland, OR 97204-1390
phone: 503-229-5696 or toll free in Oregon 800-425-4011
TTY: 503-229-6993 FAX: 503-229-6124

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the State of Oregon and the Environmental Protection Agency.

DEQ Web site privacy notice

Water Quality

Underground Injection Control (UIC) Program

- UIC Home
- Background
- Federal Classifications
- Regulations
- Application Forms
- Rule Authorization
- Water Pollution Control Facilities Permits
- Individual Class V Stormwater UIC Permit Template
- General Class V Stormwater UIC Permit Template
- Frequently Asked Questions
- Fact Sheets/ Guidance
- Database
- Contacts

- Stormwater Sub-Programs
- 401 Certification
- Clean Water State Revolving Fund
- Construction Activities
- Industrial Activities
- Municipal Stormwater
- Total Maximum Daily Load

WQ Info Guides:

- by alphabet

Underground Injection Control (UIC) Program - Search UIC Database

Results from Search Type: City = fairview

No. of UIC Wells	Facility Status	UIC Number	Organization/ Owner	Facility Name	City	County
14	Registered & not RA	10456	Silent Creek, LLC	Silent Creek	Fairview	Multnomah
9	Registered & RA	10471	Cascade Corporation	Cascade Corporation, Portland Site	Fairview	Multnomah
26	Applied for permit	10768	Reynolds School District	Reynolds Middle School	Fairview	Multnomah
1	Applied for permit	12287	Reynolds School District	Wilkes Elementary	Fairview	Multnomah
2	Applied for permit	12314	Multnomah County - Department of Environmental Services	Ukranian Bible Church	Fairview	Multnomah
1	Not Registered	12490	Brian Sunderland	Columbia Woods Apts	Fairview	Multnomah
1	Registered & RA	13244	Fairview Firs	Fairview Firs	Fairview	Multnomah
3	Registered & RA	13453	City of Fairview	City of Fairview	Fairview	Multnomah
1	Applied for permit	13771	Housing Authority of Portland (HAP)	Fairview Oaks	Fairview	Multnomah
1	Applied for permit	13772	Housing Authority of Portland (HAP)	Fairview Woods	Fairview	Multnomah
2	Applied for permit	14056	David Douglas School District	Fir Ridge Campus	Fairview	Multnomah
1	Not Registered	14199	Townsend Business Park-Birtcher	Biirtcher Center at Townsend Way (dba Townsend Business park).	Fairview	Multnomah
2	Registered & RA	14811	Landco LLC	Landco	Fairview	Multnomah
5	Formal Closure	15016	METRO	Blue Lake Park	Fairview	Multnomah
1	Registered & RA	15197	Target Corporation	Target - T1406 Fairview	Fairview	Multnomah

Record count = 15

- by category

Choose Type of Search	Enter Search Criteria*	Enter Latitude and Longitude:	Minimum	Maximum
Organization Name Search ▼		Latitude (42.0 to 46.5)		
		Longitude (-116.5 to -124.5)		

Search Reset

*For best results enter a portion/unique portion of the search criteria (eg. Address Search: 12345 Suttle Ave., type in suttle or sut).

[print version]

For more information about DEQ's Underground Injection Control Program, please see the UIC Contacts page.

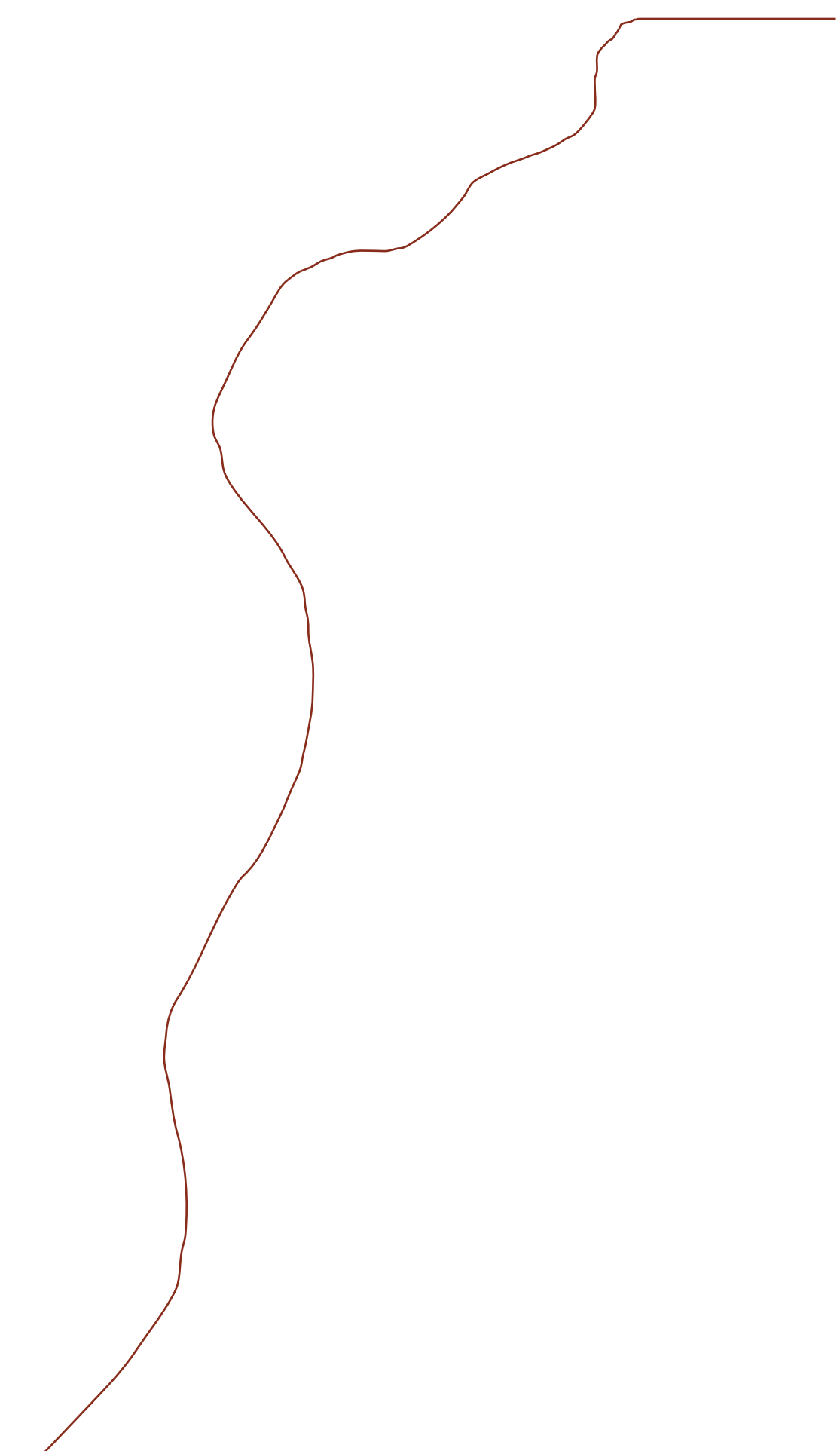
Oregon Department of Environmental Quality
Headquarters: 811 SW Sixth Ave., Portland, OR 97204-1390
Phone: 503-229-5696 or toll free in Oregon 1-800-452-4011
Oregon Telecommunications Relay Service: 1-800-735-2900 FAX: 503-229-6124

The Oregon Department of Environmental Quality is a regulatory agency authorized to protect Oregon's environment by the State of Oregon and the Environmental Protection Agency.

ACRONYMS AND ABBREVIATIONS

ACRONYMS AND ABBREVIATIONS

AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BGS	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CESQG	conditionally exempt small quantity generator
CFR	Code of Federal Regulations
DEQ	Oregon Department of Environmental Quality
ECHO	Enforcement & Compliance History Information
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
FINDS	Facilities Index System/Facility Registry System
ICIS	Integrated Compliance Information System
kg	kilogram
LUST	Leaking Underground Storage Tank
MSL	mean sea level
NFA	No Further Action
ORS	Oregon Revised Statute
PCB	polychlorinated biphenyl
ppm	parts per million
RCRAInfo	Resource Conservation and Recovery Act Information
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank
ROW	right-of-way
UIC	underground injection control
USGS	U.S. Geological Survey
UST	underground storage tank



GeoDesign Inc

REPORT OF GEOTECHNICAL ENGINEERING SERVICES

Fairview Elementary School
225 Main Street
Fairview, Oregon

For
Reynolds School District #7
May 9, 2016

GeoDesign Project: ReynoldsSD-2-01

GeoDesign Inc

May 9, 2016

Reynolds School District #7
1204 NE 201st Avenue
Fairview, OR 97024

Attention: Ms. Rachel Hopper

Report of Geotechnical Engineering Services
Fairview Elementary School
225 Main Street
Fairview, Oregon
GeoDesign Project: ReynoldsSD-2-01

GeoDesign, Inc. is pleased to submit our report of geotechnical engineering services associated with reconstruction of Fairview Elementary School. Fairview Elementary School is located at 225 Main Street in Fairview, Oregon. Our services for this project were conducted in accordance with our proposal dated January 5, 2016.

We appreciate the opportunity to be of continued service to you. Please call if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.

George Saunders, P.E., G.E.
Principal Engineer

cc: Mr. Robert Collins, Day CPM Services (via email only)

VCL:GPS:kt
Attachments
Document ID: ReynoldsSD-2-01-050916-geor.docx

EXECUTIVE SUMMARY

The following is a summary of our findings and recommendations for design and construction of the proposed school development. This executive summary is limited to an overview of the project. We recommend that the report be referenced for a more thorough description of the subsurface conditions and geotechnical recommendations for the project.

- Based on the assumed foundation loads, the proposed structure can be supported on shallow foundations underlain by granular pads bearing on firm native soil or soil compacted as structural fill as presented in the "Shallow Foundations" section of this report.

- Up to approximately 1.5 to 5.5 feet of fill was encountered in several of our explorations in the north and northwest portions of the site. Where present, we recommend that this fill material be removed from under all building foundation elements. In the proposed pavement and floor slab areas where the cut is less than 3 feet and where fill is encountered at the subgrade elevation, the upper 12 inches of the subgrade should either be removed and replaced with structural fill or the subgrade scarified and compacted as structural fill, as discussed in the "Site preparation" section of this report.

- The site will require demolition of existing asphalt pavements, curbs, and other site features. Wet, sensitive subgrade should be anticipated. A more detailed description of our recommendations is provided in the "Construction Considerations" section of this report.

- The on-site soil can be sensitive to small changes in moisture content and difficult, if not impossible, to adequately compact during wet weather or when the moisture content of the soil is more than a couple of percent above the optimum required for compaction. As discussed in the report, the moisture content of the soil currently is above optimum, and drying will be required if used as structural fill.

- The on-site soil will provide inadequate support for construction equipment during periods of persistent rainfall. Granular haul roads and working pads or cement amendment should be employed if earthwork will occur during the wet winter months.

- Based on our infiltration testing results, shallow infiltration in the silt is anticipated to be poor and in the silt or granular undocumented fill it will be highly variable. Additional testing is necessary if shallow infiltration is attempted. Deeper infiltration, such as the tested depths (approximately 10 feet BGS) is also unfeasible due to the presence of perched groundwater as shallow as 4 feet BGS at the site.

- Difficult excavation should be assumed in the underlying gravel, cobbles, and boulders.

TABLE OF CONTENTS **PAGE NO.**

TABLE OF CONTENTS **PAGE NO.**

1.0 INTRODUCTION

GeoDesign, Inc. is pleased to submit this geotechnical engineering report for the proposed re-construction of Fairview Elementary School. Fairview Elementary School is located at the northwest corner of Main Street and 2nd Street in Fairview, Oregon. Figure 1 shows the site relative to existing topographic and physical features. Figure 2 shows the proposed site layout and our approximate exploration locations.

The logs and laboratory testing results are presented in Appendix A, and well logs obtained from OWRD for nearby explorations are presented in Appendix B. Our site-specific seismic evaluation of the site is presented in Appendix C, and the Master Plan for the proposed reconstruction of the school is presented in Appendix D. Acronyms and abbreviations used herein are defined at the end of this document.

1.1 PROJECT UNDERSTANDING

The school property currently consists of a one- to two-story, 63,066-square-foot building located at the western portion of the site. The existing building has a lower daylight basement level. On the northwest side of the building there are four modular structures and an AC-paved parking lot. The main entrance of the building is on the southeast side of the building on Main Street and the grounds in front of the building on Main Street are grass covered with some mature trees and concrete walkways. The school grounds on the east half of the property include grass playing fields, an AC-paved basketball court and play area, and a playground.

Based on our review of the *Site Assessments & Master Plan Concepts* document, we understand that the proposed plan is to construct a new school building on the existing playfields at the east portion of the site. Following construction of the new building, the existing school buildings will be demolished and new playfields and parking lots will be constructed where the former school buildings resided. We understand that the new building will be two stories and will not have a basement. The Master Plan for the school is presented in Appendix D.

Although stormwater management plans were not known at the time of this report, our scope of work included obtaining field-measured infiltration rates to evaluate the feasibility of stormwater disposal on site. We reviewed the UIC assessment prepared by PBS (PBS, 2015) for Reynolds School District, and it does not include any records for Fairview Elementary School. Records are not available for existing on-site infiltration systems. However, as part of our Phase I ESA, we observed three unregistered dry wells to the north of the main school building, near the modular classroom buildings. We conducted infiltration testing at depths of approximately 2.5 and 10 feet BGS.

Based on our review of aerial photographs as part of our Phase I ESA, the property was developed with a school building and two residential structures on the eastern half of the property prior to 1918. The current school building was built in 1925, with additional phases added between 1948 and 1963. The eastern half of the project site was redeveloped as a playground area between 1942 and 1948. An outbuilding existed near the northwestern corner of the site between 1954 and 1981. An additional outbuilding was present at the northwest portion of the playground from at least 1955 through 1975. Between 1996 and 2001 four modular structures

were added in the northwestern portion of the project site. We did not observe evidence of USTs during our study, although a former UST location was identified during the site reconnaissance north of the main school building, as documented in our Phase I ESA report.

Foundation loads were not available at the time of this report; however, based on our experience with prior school buildings, we anticipate that the maximum column loads will be approximately 150 kips and the maximum wall loads will be 3 to 4 kips per linear foot. Maximum floor slab loads are anticipated to be 100 psf. The school property slopes from the south (Main Street) down towards the north (Depot Street) with approximate ground surface elevations ranging from approximately 124 to 140 feet. The school buildings were built on the gradual slopes, with the basement level becoming more exposed towards the north end of the building. The playfields are relatively level with Depot Street, with ground surface elevations ranging from approximately 124 to 129 feet, and there is a retaining wall up to approximately 6 feet tall at the southwest corner of the playfield and basketball court area. Grading plans were not known at the time of this report. However, based on the existing grade separations, cuts and fills on the site could range up to approximately 5 to 6 feet each.

2.0 SCOPE OF SERVICES

The purpose of our geotechnical engineering services was to characterize site subsurface conditions and provide geotechnical engineering recommendations for use in design and construction of the proposed development. Our scope of work included the following

Geotechnical Exploration

- Reviewed readily available published geologic data and our in-house files for existing information on subsurface conditions in the site vicinity.
- Completed the following explorations:
  - Drilled four borings (B-1 through B-4) to depths ranging from 5.4 to 13.5 feet BGS.
  - Advanced four hand-augered borings (HA-1 through HA-4) to depths ranging from approximately 3.5 to 10 feet BGS.
  - Performed infiltration testing in two borings at depths of 2.5 and 10 feet BGS.
- Classified the materials encountered in the borings, and maintained a detailed log of each boring.
- Completed laboratory analyses on disturbed and undisturbed soil samples obtained from the borings as follows:
  - Fourteen moisture content determinations in general accordance with ASTM D 2216
  - One Atterberg Limits test in general accordance with ASTM D 4318
  - Two percent-fines determination in general accordance with ASTM C 117 or ASTM D 1140
- Developed 20-year pavement designs for car and bus loads.
- Provided recommendations for site preparation and grading, including demolition, temporary and permanent slopes, fill placement criteria, suitability of on-site soil for fill, subgrade preparation, and recommendations for wet weather construction.
- Provided foundation support recommendations for the proposed structure. Our recommendations include preferred foundation type, allowable bearing capacity, and lateral resistance parameters.

- Provided recommendations for use in design of conventional retaining walls, including backfill and drainage requirements and lateral earth pressures.
- Evaluated groundwater conditions at the site, and provided general recommendations for dewatering during construction and subsurface drainage.
- Provided recommendations for seismic design factors in accordance with the procedures outlined in the 2012 IBC and 2014 SOSSC.
- Prepared this geotechnical engineering report that presents our findings, conclusions, and recommendations.

Site-Specific Seismic Evaluation

The 2014 SOSSC requires a seismic hazard investigation for "special occupancy structures." Special occupancy structures include “buildings for every public, private or parochial school through secondary level or day care centers with a capacity greater than 250 individuals.” Our services included a seismic hazard investigation. The specific scope of our services is summarized as follows:

- Reviewed available seismic hazard maps, published dynamic soil properties in the vicinity, and geologic maps and geotechnical reports discussing subsurface conditions.
- Evaluated design-level base rock motions at the site using both probabilistic and deterministic methods.
- Selected and modified existing analogous earthquake records to model expected base rock motions.
- Modeled the soil response at the site using the computer program EZ-FRISK, and conducted sensitivity analyses of model parameters, including soil properties, soil thicknesses, and base rock motions.
- Provided response spectra at the ground surface and primary foundation elevations, as well as PGAs.
- Evaluated liquefaction potential and other pertinent and code-identified hazards and their potential effect on the proposed development.
- The results of our site-specific seismic evaluation are presented in Appendix C.

3.0 SITE CONDITIONS

3.1 GEOLOGIC SETTING

The site is located in the central part of the Portland Basin physiographic province, which is bound by the Tualatin Mountains to the west and south and the Cascade Range to the east and north. The Portland Basin is described as a fault-bounded, pull-apart basin that was formed by two northwest trending fault zones (Pratt et al., 2001). The Portland Hills fault zone trends along the west side of the basin and the Frontal fault zone trends along the east side of the basin near Lacamas Lake, east of Vancouver, Washington. The Portland Basin is underlain by volcanic bedrock and contains a thick sequence of sedimentary deposits that fill the structural basin.

The surface geologic unit mapped at the site consists of a sequence of late-Pleistocene Age (15,000 to 10,000 years before present) cataclysmic glacial flood deposits that consist of unconsolidated, stratified gravel, sand, and silt that locally contains boulders (glacial erratics or drop stones). This unit correlates to the Missoula Flood events that scoured eastern Washington

and deposited thick gravel bars at the eastern portion of the Portland Basin where the Columbia River exits the Columbia Gorge (Evarts and O'Connor, 2008). Based on geologic mapping and deep water well logs, the thickness of the gravel flood deposits are reported to extend to approximately 35 to 70 feet BGS in the site vicinity (Gannet and Caldwell, 1998).

The flood deposits are underlain by the Pliocene to Pleistocene Age (5 million to 2 million years before present) Troutdale Formation, which consists of interbedded hyaloclastic sandstone and conglomerate units (Evarts and O'Connor, 2008). The Troutdale Formation is estimated to extend to depths of approximately 200 feet BGS in the site vicinity and represents extensive fluvial deposition from the ancient Columbia River where it enters the eastern Portland Basin.

The Troutdale Formation is underlain by the late Miocene to Pliocene Age (11 million to 5 million years before present) SRM, which consists of consolidated, laminated silty clay, micaceous sand, siltstone, mudstone, and claystone (Evarts and O'Connor, 2008). Based on geologic mapping and deep water well logs, the SRM is estimated to extend to depths of approximately 1,400 feet BGS in the site vicinity (Gannet and Caldwell, 1998).

The SRM is underlain by the Miocene Age (20 million to 10 million years before present) Columbia River Basalt Group, which is a series of basalt flows that originated from southeastern Washington and northeastern Oregon. The Columbia River Basalt Group is considered the geologic basement unit for this report.

3.2 SURFACE CONDITIONS

The school is located in a residential neighborhood and is bound on the southwest by 3rd Street, on the northwest by Depot Street, on the southeast by 1st Street, and on the southeast by Main Street. As described in the "Introduction" section of this report, the existing school building is located on the southwest half of the site with the playfields located on the northeast side of the school. The overall site slopes down towards the north; however, the school grounds are relatively level. The playfields are relatively level and there are concrete retaining walls up to approximately 6 feet tall to support the grade separation between the southwest corner of the basketball courts and Main Street.

We observed a large boulder several feet in diameter at the east edge of the playfield. At the request of the project team, we visited the school to observe the exposed boulders at the basement level of the school building. We observed shallow building foundations bearing on indurated/cemented gravel with cobbles and boulders, which we have interpreted as gravel flood deposits. Some of the boulders are several feet in diameter. The formation did not appear to be intact sandstone. Several large boulders had been left in place during the original construction of the school and one of the basement walls was poured around a boulder.

3.3 SUBSURFACE CONDITIONS

3.3.1 General

We explored subsurface conditions at the site by drilling four borings (B-1 through B-4) to depths ranging from 5.4 to 13.5 feet BGS and advancing four hand-augered borings (HA-1 through

HA-4) to depths of approximately 3.5 to 10 feet BGS (refusal). The approximate exploration locations are shown on Figure 2. The boring logs and laboratory test results are presented in Appendix A.

Our explorations generally encountered grass underlain by variable fill underlain by silt and in turn underlain by gravel and cobbles with variable amounts of boulders. The following sections summarize the subsurface units encountered.

3.3.2 Surface Root Zone

All of the borings were drilled in grass-covered areas of the site. The root zone encountered was approximately 2 to 3 inches thick.

3.3.3 Undocumented Fill

Undocumented fill material was encountered in boring B-2, which was drilled in the grass-covered area at the north corner of the site. Fill was also encountered in borings HA-1 through HA-3, which were advanced in the north portion of the site. The fill in boring B-2 is 5.5 feet thick and consists of very loose, silty gravel with sand. The fill in the hand-augered borings was approximately 1.5 to 4.5 feet thick and composed of soft to medium stiff silt with varying amounts of sand, gravel, and debris (glass, wire, and plastic). The fill encountered in the playfields may have been associated with prior residential structures that previously occupied the area. Laboratory testing indicates that the moisture content of the fill at the time of our explorations varied between 19 and 45 percent.

3.3.4 Silt

Underlying the fill or at the ground surface, soft to stiff silt with varying amounts of sand was encountered in all of the explorations. The silt extends to depths ranging between approximately 3.5 and 11 feet BGS. The silt is generally thicker in the explorations at the north portion of the property, where fill was encountered at the surface. In boring B-2, the silt encountered beneath the fill includes an old topsoil layer, at 5.5 feet BGS. Laboratory testing indicates that the moisture content of the silt generally ranged between 27 and 34 percent at the time of our explorations. Laboratory testing of the topsoil layer encountered in B-2 at approximately 5.5 feet BGS indicates the moisture content was approximately 70 percent and the organic content was approximately 14.8 percent at the time of our explorations.

3.3.5 Gravel

Dense to very dense gravel with varying amounts of silt, sand, and cobbles was encountered in all of the borings. The gravel extends to the maximum depths explored in borings B-1 through B-4 (5.4 to 13.5 feet BGS). The hand-augered borings met refusal in the underlying gravel at depths of approximately 3.5 to 10 feet BGS. At the time of our explorations, the tested moisture content of the gravel varied between 8 to 17 percent. As discussed above, large boulders that are several feet in diameter are anticipated within the gravel. The gravel is also expected to be cemented/indurated.

3.3.6 Groundwater

Groundwater was encountered at depths of 11.5 feet BGS in boring B-2. Perched groundwater was encountered in boring B-1 at a depth of 5.5 feet BGS, and in B-3, the bottom of the soil

sampler was wet at approximately 7.5 feet BGS. Groundwater seepage was encountered at depths of 5 to 5.5 feet BGS in hand-augered borings HA-1 through HA-3 during our explorations. Based on our review of water well logs on file with OWRD and projects completed in the site vicinity, perched groundwater was generally encountered within approximately 5 to 10 feet of the ground surface. The estimated depth to groundwater in the site vicinity is approximately 20 feet BGS according to a recent compilation of data by the City of Portland and Gresham, Clackamas, and Multnomah Counties (Snyder, 2008). The depth to groundwater may fluctuate in response to seasonal changes, prolonged rainfall, changes in surface topography, and other factors not observed in this study.

3.4 INFILTRATION TESTING

Infiltration testing was completed to assist in the evaluation of potential stormwater infiltration facilities for the project. Specific stormwater infiltration plans were not known at the time of this report. We conducted infiltration testing in the borings at depths of approximately 10 and 2.5 feet BGS in borings B-1 and B-2, respectively.

Representative samples were collected at the infiltration test depth for grain-size analysis. Table 1 presents a summary of infiltration test results and fines content determinations. The exploration logs and laboratory test results are presented in Appendix A.

Table 1. Infiltration Rates

Location	Depth (feet BGS)	Material	Infiltration Rate (inches/hour)	Fines Content[1] (percent)
B-1	10	GRAVEL with Silt and Sand	~0	9
B-2	2.5	Silty GRAVEL with Sand - Fill	40	24

1. Fines content: material passing the U.S. Standard No. 200 sieve

The results of our infiltration testing indicate the infiltration is poor at a depth of 10 feet BGS, likely due to the presence of shallow perched groundwater at the site. At shallower depths above the perched water level (4 feet), we anticipate infiltration will also be either poor (in the silt unit) or highly variable (in the undocumented fill). While infiltration capacity was encountered at B-2, we recommend that additional testing be completed if infiltration is attempted.

4.0 CONCLUSIONS

Based on the results of our subsurface explorations and engineering analyses, it is our opinion that the site can be developed as proposed. The primary geotechnical considerations for the project are summarized in the Executive Summary. Our specific recommendations are provided in the following sections of this report.

5.0 DESIGN

5.1 GENERAL

The following sections provide our design recommendations for the project. All site preparation and structural fill should be prepared as recommended in the "Construction" section of this report.

5.2 SHALLOW FOUNDATIONS

Based on the results of our explorations and analysis, the proposed school building can be supported by conventional spread footings resting on granular pads underlain by undisturbed native soil or structural fill overlying firm native soil. Fill was encountered in the northwest portion of the playfields. Soft topsoil was encountered beneath the fill at a depth of 5.5 feet BGS in boring B-2. Foundations should not be established on undocumented fill, soft soil, or soil containing deleterious material. If present, this material should be removed and granular pads constructed under the footing.

The granular pads should be a minimum of 4 inches thick and extend 6 inches beyond the margins of the footings for every foot excavated below the base grade of the footing. The granular pads should consist of imported granular material, as defined in the "Structural Fill" section of this report. The imported granular material should be compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557, or, as determined by one of our geotechnical staff, until well-keyed. We recommend that a member of our geotechnical staff observe the prepared footing subgrade.

5.2.1 Dimensions and Capacities

Continuous wall and isolated spread footings should be at least 18 and 24 inches wide, respectively. The bottom of exterior footings should be at least 18 inches below the lowest adjacent exterior grade. The bottom of interior footings should be established at least 12 inches below the base of the slab.

Footings bearing on subgrade prepared as recommended above should be sized based on an allowable bearing pressure of 2,500 psf. This is a net bearing pressure; the weight of the footing and overlying backfill can be ignored in calculating footing sizes. The recommended allowable bearing pressure applies to the total of dead plus long-term live loads and may be increased by 50 percent for short-term loads such as those resulting from wind or seismic forces.

5.2.2 Resistance to Sliding

Lateral loads on footings can be resisted by passive earth pressure on the sides of the structures and by friction on the base of the footings. Our analysis indicates that the available passive earth pressure for footings confined by native soil and structural fill is 300 pcf, modeled as an equivalent fluid pressure. Adjacent floor slabs, pavements, or the upper 12-inch depth of adjacent unpaved areas should not be considered when calculating passive resistance. The passive resistance should be reduced to 180 pcf below groundwater (4 feet BGS).

For footings in contact with native soil, a coefficient of friction equal to 0.30 may be used when calculating resistance to sliding. For footings in contact with granular fill, a coefficient of friction equal to 0.40 may be used when calculating resistance to sliding.

5.2.3 Subgrade Observation

All footing and floor subgrades should be evaluated by a representative of GeoDesign to evaluate the bearing conditions. Observations should also confirm that all loose or soft material, organics, unsuitable fill, prior topsoil zones, and softened subgrades (if present) have been removed. Localized deepening of footing excavations may be required to penetrate deleterious material.

5.3 FLOOR SLABS

Satisfactory subgrade support for building floor slabs supporting up to 100 psf areal loading can be obtained on the existing undisturbed native silt or on structural fill. To help reduce moisture transmission and slab shifting, we recommend a minimum 6-inch-thick layer of floor slab base rock be placed and compacted over a subgrade that has been prepared in conformance with the "Site Preparation" section of this report. The floor slab base rock should meet the requirements in the "Structural Fill" section of this report and be compacted to at least 95 percent of ASTM D 1557.

While groundwater is unlikely to be encountered within the slab subgrade material, the native soil is fine grained and will tend to maintain a high moisture content. In the areas where moisture-sensitive floor slab and flooring will be installed, the installation of a vapor barrier is warranted in order to reduce the potential for moisture transmission through, and efflorescence growth on, the slab and flooring. In addition, flooring manufacturers often require vapor barriers to protect flooring and flooring adhesives and will warrant their product only if a vapor barrier is installed according to their recommendations.

We recommend that a vapor barrier be installed in all floor slab areas established less than 1 foot above existing grade. Several vapor barrier options are available. If Stego Wrap, or other system where the floor slab concrete is directly over the vapor barrier, is being considered, we recommend that the structural engineer be contacted to determine if the mix design for the concrete should be modified assuming the above-referenced construction sequence. Actual selection and design of an appropriate vapor barrier, if needed, should be based on discussions among members of the design team.

Slabs should be reinforced according to their proposed use and per the structural engineer's recommendations. Load-bearing concrete slabs may be designed assuming a modulus of subgrade reaction, k, of 150 psi per inch.

5.4 RETAINING STRUCTURES

5.4.1 Assumptions

Plans are preliminary, although we anticipate some retaining walls will be required to support grade separations at the site. Our retaining wall design recommendations are based on the following assumptions: (1) the walls consist of conventional, cantilevered retaining walls, (2) the

walls are less than 8 feet in height, (3) the backfill is drained, and (4) the backfill has a slope flatter than 4H:1V. Re-evaluation of our recommendations will be required if the retaining wall design criteria for the project varies from these assumptions.

5.4.2 Wall Design Parameters

For unrestrained retaining walls, an active pressure of 35 pcf equivalent fluid pressure should be used for design. For embedded building walls, a superimposed seismic lateral force should be calculated based on a dynamic force of $7.0H^2$ pounds per lineal foot of wall, where H is the height of the wall in feet, and applied a distance of 0.6H from the base of the wall. Where retaining walls are restrained from rotation prior to being backfilled, a pressure of 55 pcf equivalent fluid pressure should be used for design.

If surcharges (e.g., retained slopes, building foundations, vehicles, steep slopes, terraced walls, etc.) are located within a horizontal distance from the back of a wall equal to twice the height of the wall, then additional pressures will need to be accounted for in the wall design. Our office should be contacted for appropriate wall surcharges based on the actual magnitude and configuration of the applied loads.

The base of the wall footing excavations should extend a minimum of 18 inches below lowest adjacent grade. The footing excavations should then be lined with a minimum 6-inch-thick layer of compacted imported granular material, as described in the "Materials" section of this report.

The wall footings should be designed in accordance with the guidelines provided in the appropriate portion of the "Shallow Foundations" section of this report.

5.4.3 Wall Drainage and Backfill

The above design parameters have been provided assuming that back-of-wall drains will be installed to prevent buildup of hydrostatic pressures behind all walls. If a drainage system is not installed, then our office should be contacted for revised design forces.

The backfill material placed behind the walls and extending a horizontal distance of ½H, where H is the height of the retaining wall, should consist of retaining wall select backfill placed and compacted in conformance with the "Structural Fill" section of this report.

A minimum 6-inch-diameter perforated collector pipe should be placed at the base of the walls. The pipe should be embedded in a minimum 2-foot-wide zone of angular drain rock that is wrapped in a drainage geotextile fabric and extends up the back of the wall to within 1 foot of the finished grade. The drain rock and drainage geotextile fabric should meet specifications provided in the "Materials" section of this report. The perforated collector pipes should discharge at an appropriate location away from the base of the wall. The discharge pipe(s) should not be tied directly into stormwater drain systems, unless measures are taken to prevent backflow into the drainage system of the wall.

Settlement of up to 1 percent of the wall height commonly occurs immediately adjacent to the wall as the wall rotates and develops active lateral earth pressures. Consequently, we

recommend that construction of flatwork adjacent to retaining walls be postponed at least four weeks after backfilling of the wall, unless survey data indicates that settlement is complete prior to that time.

5.5 SEISMIC DESIGN CONSIDERATIONS

5.5.1 IBC Parameters

Based on our explorations, the following design parameters can be applied if the building is designed using the applicable provisions of the 2012 IBC and 2014 SOSSC. The parameters in Table 2 are appropriate for code-level seismic design. We performed a site-specific seismic study for this project. The results of this study, including liquefaction analyses, are presented in Appendix C. As discussed in Appendix C, liquefaction will not present a design concern for the project.

Table 2. IBC Seismic Design Parameters

Seismic Design Parameter	Short Period (T_s = 0.2 second)	1 Second Period (T_1 = 1.0 second)
MCE Spectral Acceleration, S	S_s = 0.96 g	S_1 = 0.39 g
Site Class	C	
Site Coefficient, F	F_a = 1.02	F_v = 1.41
Adjusted Spectral Acceleration, S_M	S_{MS} = 0.98 g	S_{M1} = 0.55 g
Design Spectral Response Acceleration Parameters, S_D	S_{DS} =0.65 g	S_{D1} =0.37 g
Design Spectral PGA	0.26 g	

5.6 PAVEMENTS

5.6.1 Design Assumptions and Parameters

The current plan is to build a new parking lot and bus loading zone with access from Main Street, where the south portion of the existing school building resides. A second parking area is proposed at the southeast corner of the property and will be located on the east side of the replacement school building. At the time this report was prepared, we had not been provided specific traffic counts. However, based on the site use, we understand that traffic on the pavements will consist primarily of passenger cars and busses. Based on our review of the bus summary section of the Master Plan concept (Appendix D), the proposed school bus count consists of six large busses and four small busses. We have assumed that large busses are standard-sized school busses equivalent to a FHWA classification of 4 (two- to three-axle bus) and that small busses are equivalent to a FHWA classification of 5 (two-axle truck). Pavements should be installed on undisturbed native subgrade, scarified and re-compacted soil, or new engineered fills described in the “Site Preparation” and “Structural Fill” sections of this report.

Our pavement recommendations are based on the following assumptions:

- 20-year design life for AC.
- A resilient modulus of 20,000 psi was estimated for the aggregate base.
- Initial and terminal serviceability indices of 4.2 and 2.0 for AC.
- Reliability and standard deviation of 85 percent and 0.45 for AC pavement, respectively.
- Structural coefficient of 0.42 and 0.10 for the AC and aggregate base, respectively.
- The number of busses and trucks indicated below, plus trucks are assumed to be 50 percent two-axle and 50 percent three-axle trucks. We have not included a growth factor. Analysis of alternative traffic assumptions can be completed if requested.
- A resilient modulus of 4,500 psi for subgrade prepared in accordance with the "Site Preparation" section of the report.

If any of these assumptions are incorrect, our office should be contacted with the appropriate information so that the pavement designs can be revised.

5.6.2 Flexible AC Pavement Recommendations

Based on the traffic assumptions provided above, we recommend the AC pavement sections in Table 3.

Table 3. Recommended Standard Pavement Sections

Pavement Use	Busses per Day	Trucks per Day[1]	ESALs	AC Thickness (inches)	Aggregate Base Thickness (inches)
Automobile-Only Parking	0	0	10,000	2.5	9.0
Automobile-Only Drive Aisles	0	0	50,000	3.5	10.0
Bus Areas	10	10	85,000	4.0	11.0

[1] Trucks assumed to be 50 percent two-axle and 50 percent three-axle trucks. Busses are assumed to be six standard busses and four small busses.

If the subgrade is cement amended to the thicknesses indicated below and the amended soil achieves a seven-day unconfined compressive strength of at least 100 psi, then the pavements can be constructed as recommended in Table 4.

Table 4. Recommended Pavement Sections Using Cement Amendment

Pavement Use	Busses per Day	Trucks per Day[1]	ESALs	AC Thickness (inches)	Aggregate Base Thickness (inches)	Cement Amendment[2] (inches)
Automobile Parking	0	0	10,000	2.5	4.0	12.0
Automobile-Only Drive Aisles	0	0	50,000	3.5	4.0	12.0
Bus Areas	10	10	85,000	4.0	6.0	12.0

1. Trucks assumed to be 50 percent two-axle and 50 percent three-axle trucks.
2. Assumes a minimum seven-day unconfined compressive strength of 100 psi.

All thicknesses are intended to be the minimum acceptable. The design of the recommended pavement section is based on the assumption that construction will be completed during an extended period of dry weather. Wet weather construction could require an increased thickness of aggregate base. In addition, to prevent strength loss during curing, cement-amended soil should be allowed to cure for at least four days prior to construction traffic or placing the base rock. Lastly, the amended subgrade should be protected with a minimum of 4 inches of base rock prior to construction traffic access.

Construction traffic should be limited to non-building, unpaved portions of the site or haul roads. Construction traffic should not be allowed on new pavements. If construction traffic is to be allowed on newly constructed road sections, an allowance for this additional traffic will need to be made in the design pavement section.

The AC, aggregate base, and cement amendment should meet the requirements outlined in the "Materials" section of this report.

5.7 DRAINAGE

5.7.1 General

Perched groundwater is typically encountered in the fine-grained soil at the site, particularly during or after periods of heavy rainfall.

5.7.2 Surface

Where possible, the finished ground surface around the building should be sloped away from the structure at a minimum 2 percent gradient for a distance of at least 5 feet. Downspouts or roof scuppers should discharge into a storm drain system that carries the collected water to an appropriate stormwater system. Trapped planter areas should not be created adjacent to the building without providing means for positive drainage (e.g., swales or catch basins).

5.7.3 Foundation Drains

We recommend that perimeter foundation drains be installed where the finished floor grade will be less than 2 feet above existing grades. The foundation drains should be constructed at a minimum slope of approximately ½ percent and pumped or drained by gravity to a suitable discharge. The perforated drainpipe should not be tied to a stormwater drainage system without backflow provisions. The foundation drains should consist of 4-inch-diameter perforated drainpipe embedded in a minimum 2-foot-wide zone of crushed drain rock that extends to the ground surface. The invert elevation of the drainpipe should be installed at least 18 inches below the elevation of the floor slab. The drain rock and geotextile should meet the requirements specified in the "Materials" section of this report. The drain rock and geotextile should extend up the side of embedded walls to within a foot of the ground surface, geotextile wrapped over the top of the drain rock, as recommended in the "Retaining Structures" section of this report.

5.8 PERMANENT SLOPES

Permanent cut or fill slopes on the site should not exceed a gradient of 2H:1V, unless specifically evaluated for stability. Slopes that will be maintained by mowing should not be constructed steeper than 3H:1V. Slopes should be planted with appropriate vegetation to provide protection against erosion as soon as possible after grading. Surface water runoff should be collected and directed away from slopes to prevent water from running down the face of the slope.

6.0 CONSTRUCTION

6.1 SITE PREPARATION

6.1.1 Demolition

Site development will include demolition and removal of existing structures or utilities that may be present underneath areas to be improved. Demolition includes complete removal of the buildings, concrete slabs, and footings. In addition to the buildings, former USTs and other storage tanks, as well as former dry wells within proposed structural areas should be abandoned per state and local regulations prior to site development. Existing utilities that will interfere with earthwork or will be located beneath the proposed structure should be removed prior to construction.

In general, demolished material should be transported off site for disposal. Demolished concrete may be used in structural fill provided it is used as recommended in the "Recycled On-Site Material" section of this report.

Excavations should be performed as recommended in the "Construction Considerations" section of this report. Excavations left from demolition and removal of existing structures should be backfilled with compacted structural fill in accordance with the recommendations in the "Structural Fill" section of this report.

6.1.2 Stripping and Grubbing

The existing topsoil zone should be stripped and removed from all fill areas. Based on our explorations, the average depth of stripping in areas that are grass covered or landscaped will be approximately 2 to 3 inches, although greater stripping depths may be required to remove

localized zones of loose or organic soil. The actual stripping depth should be based on field observations at the time of construction. Stripped material should be transported off site for disposal or used in landscaped areas.

Trees and shrubs should be removed from fill areas. In addition, root balls should be grubbed out to the depth of the roots, which could exceed 3 feet BGS. Depending on the methods used to remove the root balls, considerable disturbance and loosening of the subgrade could occur during site grubbing. We recommend that soil disturbed during grubbing operations be removed to expose firm, undisturbed subgrade. The resulting excavations should be backfilled with structural fill.

6.1.3 Fill Improvement

We observed approximately 1.5 to 4.5 feet of fill composed of soft to medium stiff silt with varying amounts of sand, gravel, and debris (glass, wire, and plastic) in hand-augered borings HA-1 through HA-3 and approximately 5.5 feet of very loose, silty gravel with sand in boring B-2. Within all proposed structural fill, pavement, at-grade floor slabs, and improvement areas; for a 5-foot margin beyond such areas; and where less than 3 feet of cut is required, we recommend that upper 12 inches of the stripped subgrade be removed and replaced with structural fill or the subgrade scarified and compacted as structural fill. It may also be possible to cement amend the existing subgrade. Work should be performed in accordance with the "Materials" section of this report.

6.1.4 Subgrade Evaluation

Upon completion of stripping and subgrade stabilization, and prior to the placement of fill or pavement improvements, the exposed subgrade should be evaluated by proof rolling. The subgrade should be proof rolled with a fully loaded dump truck or similarly heavy, rubber-tired construction equipment to identify soft, loose, or unsuitable areas. A member of our geotechnical staff should observe the proof rolling to evaluate yielding of the ground surface. During wet weather, subgrade evaluation should be performed by probing with a foundation probe rather than proof rolling. Areas that appear soft or loose should be improved in accordance with subsequent sections of this report.

6.2 CONSTRUCTION CONSIDERATIONS

Based on the results of our explorations, our experience with the local soil conditions, and experience with subgrade under prior structures (especially building slabs and pavements), we anticipate that relatively soft, easily disturbed soil will be encountered under the existing building and pavements. The native soil is capable of supporting the design loads; however, it can easily be damaged during the demolition and construction activities. Methods to protect the subgrade from disturbance are provided below. If not carefully executed, site preparation, utility trench work, and excavations can create extensive soft areas and significant repair costs can result. Earthwork planning, regardless of the time of year, should include considerations for minimizing subgrade disturbance.

If construction occurs during or extends into the wet season, or if the moisture content of the surficial soil is more than a couple percentage points above optimum, site stripping and cutting may need to be accomplished using track-mounted equipment. Likewise, the use of granular

haul roads and staging areas will be necessary for support of construction traffic during the rainy season or when the moisture content of the surficial soil is more than a few percentage points above optimum. The base rock thickness for pavement areas is intended to support post-construction design traffic loads. This design base rock thickness may not support construction traffic or pavement construction when the subgrade soil is wet. Accordingly, if construction is planned for periods when the subgrade soil is wet, staging and haul roads with increased thicknesses of base rock will be required. The amount of staging and haul road areas, as well as the required thickness of granular material, will vary with the contractor's sequencing of a project and type/frequency of construction equipment. Based on our experience, between 12 and 18 inches of imported granular material is generally required in staging areas and between 18 and 24 inches in haul roads areas. Stabilization material may be used as a substitute provided the top 4 inches of material consists of imported granular material. The actual thickness will depend on the contractor's means and methods and, accordingly, should be the contractor's responsibility. In addition, a geotextile fabric should be placed as a barrier between the subgrade and imported granular material in areas of repeated construction traffic. The imported granular material, stabilization material, and geotextile fabric should meet the specifications in the "Materials" section of this report.

As an alternative to thickened crushed rock sections, haul roads and utility work zones may be constructed using cement-amended subgrades overlain by a crushed rock wearing surface. If this approach is used, the thickness of granular material in staging areas and along haul roads can typically be reduced to between 6 and 9 inches. This recommendation is based on an assumed minimum unconfined compressive strength of 100 psi for subgrade amended to a depth of 12 to 16 inches. The actual thickness of the amended material and imported granular material will depend on the contractor's means and methods and, accordingly, should be the contractor's responsibility. Cement amendment is discussed in the "Materials" section of this report.

6.3 EXCAVATION

6.3.1 General

Dense gravel with cobbles and boulders is present at relatively shallow depths across the site. Construction considerations associated with the presence of shallow gravel with cobbles and boulders include the following:

- Excavations can become difficult, if not impossible, with conventional equipment.
- Excavation volumes for utility trenches may be greater than anticipated due to sloughing and the need to remove oversized material.
- Boulders will likely be encountered during excavations, and we recommend that project bid documents include a contingency for boulder removal, as well as the associated increased trench volumes for backfilling.

6.3.2 Trench Cuts and Trench Shoring

Trench cuts should stand near vertical to a depth of at least 4 feet. Open excavation techniques may be used to excavate trenches with depths between 4 and 8 feet, provided the walls of the excavation are cut at a slope of 1H:1V, groundwater seepage is not present, and with the understanding that some sloughing may occur. The trenches should be flattened to 1½H:1V if

excessive sloughing occurs. Excavations that extend into the very dense gravel unit will likely encounter difficult excavation as well as cobbles and boulders.

If box shoring is used, it should be understood that box shoring is a safety feature used to protect workers and does not prevent caving. If the excavations are left open for extended periods of time, then caving of the sidewalls may occur. The presence of caved material will limit the ability to properly backfill and compact the trenches. The contractor should be prepared to fill voids between the box shoring and the sidewalls of the trenches with sand or gravel before caving occurs.

If shoring is used, we recommend that the type and design of the shoring system be the responsibility of the contractor, who is in the best position to choose a system that fits the overall plan of operation. All excavations should be made in accordance with applicable OSHA and state regulations.

6.3.3 Dewatering

Perched groundwater may be encountered within 4 feet of the ground surface, particularly after prolonged wet periods. Seepage was present in our explorations and will likely be present in most utility excavations that extend deeper than 4 feet BGS. Dewatering systems are best designed by the contractor; however, in our opinion, it should be possible to remove groundwater encountered by pumping from a sump in trenches. More intense use of pumps may be required at certain times of the year and where more intense seepage occurs. Removed water should be routed to a suitable discharge point.

If groundwater is present at the base of utility excavations, we recommend placing up to 12 inches of stabilization material at the base of the excavation. Specifications for trench stabilization material are provided in the "Materials" section of this report.

6.3.4 Safety

All excavations should be made in accordance with applicable OSHA requirements and regulations of the state, county, and local jurisdiction. While this report describes certain approaches to excavation and dewatering, the contract documents should specify that the contractor is responsible for selecting excavation and dewatering methods, monitoring the excavations for safety, and providing shoring (as required) to protect personnel and adjacent structural elements.

6.4 MATERIALS

6.4.1 Structural Fill

6.4.1.1 General

Fill should be placed on subgrade that has been prepared in conformance with the "Site Preparation" section of this report. A variety of material may be used as structural fill at the site. However, all material used as structural fill should be free of organic matter or other unsuitable material and should meet the specifications provided in OSSC 00330 (Earthwork), OSSC 00400 (Drainage and Sewers), and OSSC 02600 (Aggregates), depending on the application. A brief characterization of some of the acceptable materials and our recommendations for their use as structural fill is provided below.

6.4.1.2 On-Site Soil

The material at the site should be suitable for use as general structural fill provided it is properly moisture conditioned; free of debris, organic material, and particles over 4 inches in diameter; and meets the specifications provided in OSSC 00330.12 (Borrow Material).

Based on laboratory test results, the moisture content of the shallow fine-grained soil generally varied from 19 to 45 percent at the time of our explorations. We estimate the optimum moisture content for compaction to be approximately 17 to 19 percent for the on-site soil. Moisture conditioning (primarily drying) will be required to use on-site soil for structural fill. Accordingly, extended dry weather will be required to adequately condition and place the soil as structural fill. It will be difficult, if not impossible, to adequately compact on-site soil during the rainy season or during prolonged periods of rainfall.

When used as structural fill, native soil should be placed in lifts with a maximum uncompacted thickness of 6 to 8 inches and compacted to not less than 92 percent of the maximum dry density for fine-grained soil and 95 percent of the maximum dry density for granular soil, as determined by ASTM D 1557.

6.4.1.3 Imported Granular Material

Imported granular material used as structural fill should be pit- or quarry-run rock, crushed rock, or crushed gravel and sand and should meet the specifications provided in OSSC 00330.14 (Selected Granular Backfill) or OSSC 00330.15 (Selected Stone Backfill). The imported granular material should also be angular, fairly well graded between coarse and fine material, have less than 5 percent by dry weight passing the U.S. Standard No. 200 sieve, and have at least two fractured faces.

Imported granular material should be placed in lifts with a maximum uncompacted thickness of 12 inches and compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557. During the wet season or when wet subgrade conditions exists, the initial lift should be approximately 18 inches in uncompacted thickness and should be compacted by rolling with a smooth-drum roller without using vibratory action.

6.4.1.4 Stabilization Material

Stabilization material used in staging or haul road areas, or as trench stabilization material, should consist of 4- or 6-inch-minus pit- or quarry-run rock, crushed rock, or crushed gravel and sand and should meet the specifications provided in OSSC 00330.15 (Selected Stone Backfill). The material should have a maximum particle size of 6 inches, less than 5 percent by dry weight passing the U.S. Standard No. 4 sieve, and at least two mechanically fractured faces. The material should be free of organic matter and other deleterious material. Stabilization material should be placed in lifts between 12 and 24 inches thick and compacted to a firm condition.

6.4.1.5 Trench Backfill

Trench backfill placed beneath, adjacent to, and for at least 12 inches above utility lines (i.e., the pipe zone) should consist of well-graded granular material with a maximum particle size of 1½ inches and less than 10 percent by dry weight passing the U.S. Standard No. 200 sieve and should meet the specifications provided in OSSC 00405.13 (Pipe Zone Material). The pipe zone

backfill should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department.

Within roadway alignments, the remainder of the trench backfill up to the subgrade elevation should consist of well-graded granular material with a maximum particle size of 2½ inches and less than 10 percent by dry weight passing the U.S. Standard No. 200 sieve and should meet the specifications provided in OSSC 00405.14 (Trench Backfill; Class B, C, or D). This material should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department. The upper 3 feet of the trench backfill should be compacted to at least 95 percent of the maximum dry density, as determined by ASTM D 1557.

Outside of structural improvement areas (e.g., roadway alignments or building pads) trench backfill placed above the pipe zone may consist of general fill material that is free of organics and material over 6 inches in diameter and meets the specifications provided in OSSC 00405.14 (Trench Backfill; Class A, B, C, or D). This general trench backfill should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department.

6.4.1.6 Drain Rock

Drain rock should consist of angular, granular material with a maximum particle size of 2 inches and should meet the specifications provided in OSSC 00430.11 (Granular Drain Backfill Material). The material should be free of roots, organic matter, and other unsuitable material; have less than 2 percent by dry weight passing the U.S. Standard No. 200 Sieve (washed analysis); and have at least two mechanically fractured faces. Drain rock should be compacted to a well-keyed, firm condition.

6.4.1.7 Aggregate Base Rock

Imported granular material used as base rock for building floor slabs and pavements should consist of ¾- or 1½-inch-minus material (depending on the application) and meet the requirements in OSSC 00641 (Aggregate Subbase, Base, and Shoulders). In addition, the aggregate should have less than 5 percent by dry weight passing the U.S. Standard No. 200 sieve. The base aggregate should be compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557.

6.4.1.8 Retaining Wall Select Backfill

Backfill material placed behind retaining walls and extending a horizontal distance of ½H, where H is the height of the retaining wall, should consist of select granular material that meets the specifications provided in OSSC 00510.12 (Granular Wall Backfill) or OSSC 00510.13 (Granular Structure Backfill).

The backfill should be placed and compacted as recommended for structural fill, with the exception of backfill placed immediately adjacent to walls. Backfill adjacent to walls should be compacted to a lesser standard to reduce the potential for generation of excessive pressure on the walls. Backfill located within a horizontal distance of 3 feet from the retaining walls should be compacted to approximately 90 percent of the maximum dry density, as determined by

ASTM D 1557. Backfill placed within 3 feet of the wall should be compacted in lifts less than 6 inches thick using hand-operated tamping equipment (such as a jumping jack or vibratory plate compactor). If flatwork (slabs, sidewalk, or pavement) will be placed adjacent to the wall, we recommend that the upper 2 feet of fill be compacted to 95 percent of the maximum dry density, as determined by ASTM D 1557.

6.4.1.9 Cement Amendment

General

In conjunction with an experienced contractor, the on-site soil can be amended with portland cement to obtain suitable support properties. Successful use of soil amendment depends on the use of correct mixing techniques, soil moisture content, and amendment quantities. Soil amending should be conducted in accordance with the specifications provided in OSSC 00344 (Treated Subgrade). The amount of cement used during treatment should be based on an assumed soil dry unit weight of 110 pcf.

Stabilization

Specific recommendations based on exposed site conditions for soil amending can be provided if necessary. However, for preliminary design purposes, we recommend a target strength for cement-amended subgrade for building and pavement subbase (below base aggregate) soil of 100 psi. The amount of cement used to achieve this target generally varies with moisture content and soil type. It is difficult to predict field performance of soil to cement amendment due to variability in soil response, and we recommend laboratory testing to confirm expectations. Generally, 4 percent cement by weight of dry soil can be used when the soil moisture content does not exceed approximately 20 percent. If the soil moisture content is in the range of 25 to 35 percent, 6 to 8 percent by weight of dry soil is recommended. The amount of cement added to the soil may need to be adjusted based on field observations and performance. Moreover, depending on the time of year and moisture content levels during amendment, water may need to be applied during tilling to appropriately condition the soil moisture content.

For building and pavement subbase, we recommend assuming a minimum cement ratio of 6 percent (by dry weight). If the soil moistures are in excess of 30 percent, a cement ratio of 7 percent will likely be needed. Because of the higher organic content and moisture, we recommend using a cement ratio of 7 to 8 percent when stabilizing topsoil material for building and pavement subbase.

A minimum curing of four days is required between treatment and construction traffic access. Construction traffic should not be allowed on unprotected cement-amended subgrade. To protect the cement-amended surfaces from abrasion or damage, the finished surface should be covered with 4 to 6 inches of imported granular material.

Treatment depths for building/pavement, haul roads, and staging areas are typically on the order of 12, 16, and 12 inches, respectively. The crushed rock typically becomes contaminated with soil during construction. Contaminated base rock should be removed and replaced with clean rock in pavement areas. The actual thickness of the amended material and imported granular material for haul roads and staging areas will depend on the anticipated traffic, as well as the contractor's means and methods, and accordingly, should be the contractor's responsibility.

Structural
On-site soil that would not otherwise be suitable for structural fill may be amended and placed as fill over a subgrade prepared in conformance with the "Site Preparation" section of this report. The cement ratio for general cement-amended fill can generally be reduced by 1 percent (by dry weight). Typically, a minimum curing of four days is required between treatment and construction traffic access. Consecutive lifts of fill may be treated immediately after the previous lift has been amended and compacted (e.g., the four-day wait period does not apply). However, where the final lift of fill is a building or roadway subgrade, then the four-day wait period is in effect.

Compaction
A static, sheepsfoot or segment pad roller with a minimum static weight of 40,000 pounds should be used for compaction of fine-grained soil followed by final compaction using a smooth-drum roller with a minimum applied lineal force of 700 pounds per inch. The amended soil should be compacted to at least 92 percent of the achievable dry density at the moisture content of the material as defined by ASTM D 1557.

Specifications Recommendations
We recommend that the following comments be included in the specifications for the project:

- Mixing Equipment
  - Use a pulverizer/mixer capable of uniformly mixing the cement into the soil to the design depth. Blade mixing will not be allowed.
  - Pulverize the soil-cement mixture such that 100 percent by dry weight passes a 1 inch sieve and a minimum of 70 percent passes a No. 4 sieve, exclusive of gravel or stone retained on these sieves. If water is required, the pulverizer should be equipped to inject water to a tolerance of ¼ gallon per square foot of surface area.
  - Use machinery that will not disturb the subgrade, such as using low-pressure "balloon" tires on the pulverizer/mixer vehicle. If subgrade is disturbed, the tilling/treatment depth shall extend the full depth of the disturbance.
  - Multiple "passes" of the tiller will likely be required to adequately blend the cement and soil mixture.

- Spreading Equipment
  - Use a spreader capable of distributing the cement uniformly on the ground to within 5 percent variance of the specified application rate.
  - Use machinery that will not disturb the subgrade, such as using low-pressure "balloon" tires on the spreader vehicle. If subgrade is disturbed, the tilling/treatment depth shall extend the full depth of the disturbance.

- Compaction Equipment
  - Use a static, sheepsfoot or segmented pad roller with a minimum static weight of 40,000 pounds for initial compaction of fine-grained soil (silt and clay), or an alternate approved by the geotechnical engineer.
  - Use a vibratory, smooth-drum roller with a minimum applied lineal force of 600 pounds per inch for final compaction, or an alternate approved by the geotechnical engineer.

6.4.1.10 Recycled On-Site Material

On-site AC, conventional concrete, and oversized rock may be used as fill if they are processed to meet the requirements for their intended use and the use of these materials do not result in an environmental concern. Processing includes crushing and screening, grinding in place, or other methods to meet the meet the requirements for structural fill as described above. The processed material should be fairly well graded and not contain metal, organic, or other deleterious materials. The processed material may be mixed with on-site soil or imported fill to assist in achieving the gradation requirements. We recommend that processed recycled fill have the maximum particle sizes listed in Table 5.

Table 5. Processed Fill Maximum Particle Size

Depth of Placement[1]	Maximum Particle Size
0 to 2 feet	½ inch
2 to 6 feet	2 inches
6 to 10 feet	4 inches
deeper than 10 feet	8 inches

1. below subgrade of structural element

Recycled on-site fill material should not be used within a depth of 2 feet from foundations, floor slabs, pavements, or other subsurface elements. We also caution that excavation through recycled material that is placed as structural may be difficult if a significant fraction of oversized particles is present. In addition, these excavations may also be prone to raveling and caving.

6.4.1.11 AC

The AC should be Level 2, ½-inch, dense ACP and compacted to 91 percent of the theoretical maximum density of the mix, as determined by AASHTO T 209. The minimum and maximum lift thickness should be 2.0 and 3.0 inches, respectively, for ½-inch ACP. Asphalt binder should be performance graded and conform to PG 64-22 or better.

6.4.1.12 Geotextile Fabric

Subgrade Geotextile Fabric

A subgrade geotextile fabric should be placed as a barrier between the subgrade and granular material in staging areas, haul road areas, or in areas of repeated construction traffic. The geotextile should meet the specifications provided in OSSC 02320 (Geosynthetics) for separation geotextiles (Table 02320-4) and be installed in accordance with OSSC 00350 (Geosynthetic Installation). The geotextile should have a Level "B" certification.

Drainage Geotextile Fabric

Drain rock, and other granular material used for subsurface drains, should be wrapped in a geotextile fabric that meets the specifications provided in OSSC 02320 (Geosynthetics) for drainage geotextiles (Table 02320-1) and be installed in accordance with OSSC 00350 (Geosynthetic Installation).

6.5 EROSION CONTROL

The site soil is susceptible to erosion; therefore, erosion control measures should be carefully planned and in place before construction begins. Surface water runoff should be collected and directed away from slopes to prevent water from running down the slope face. Erosion control measures (such as straw bales, sediment fences, and temporary detention and settling basins) should be used in accordance with local and state ordinances.

7.0 OBSERVATION OF CONSTRUCTION

Satisfactory foundation and earthwork performance depends to a large degree on quality of construction. Sufficient observation of the contractor's activities is a key part of determining that the work is completed in accordance with the construction drawings and specifications. Subsurface conditions observed during construction should be compared with those encountered during the subsurface exploration. Recognition of changed conditions often requires experience; therefore, qualified personnel should visit the site with sufficient frequency to detect if subsurface conditions change significantly from those anticipated.

We recommend that GeoDesign be retained to observe earthwork activities, including stripping, proof rolling of the subgrade and repair of soft areas, footing subgrade preparation, performing laboratory compaction and field moisture-density tests, observing final proof rolling of the pavement subgrade and base rock, and asphalt placement and compaction.

8.0 LIMITATIONS

We have prepared this report for use by Reynolds School District, Day CPM Services, and members of the design and construction teams for the proposed project. The data and report can be used for bidding or estimating purposes, but our report, conclusions, and interpretations should not be construed as warranty of the subsurface conditions and are not applicable to other nearby building sites.

Exploration observations indicate soil conditions only at specific locations and only to the depths penetrated. They do not necessarily reflect soil strata or water level variations that may exist between exploration locations. If subsurface conditions differing from those described are noted during the course of excavation and construction, re-evaluation will be necessary.

The site development plans and design details were preliminary at the time this report was prepared. When the design has been finalized and if there are changes in the site grades or location, configuration, design loads, or type of construction for the buildings, and walls, the conclusions and recommendations presented may not be applicable. If design changes are made, we request that we be retained to review our conclusions and recommendations and to provide a written modification or verification.

The scope does not include services related to construction safety precautions, and our recommendations are not intended to direct the contractor's methods, techniques, sequences, or procedures, except as specifically described in our report for consideration in design.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted practices in this area at the time the report was prepared. No warranty, express or implied, should be understood.

♦ ♦ ♦

We appreciate the opportunity to be of service to you. Please call if you have questions concerning this report or if we can provide additional services.

Sincerely,

GeoDesign, Inc.

Viola C. Lai, P.E., G.E.
Project Engineer

George Saunders, P.E., G.E.
Principal Engineer

REFERENCES

Evarts, Russell C. and O'Connor, Jim E., 2008, Geologic Map of the Camas Quadrangle, Clark County, Washington, and Multnomah County, Oregon, U. S. Geological Survey, Scientific Investigations Map 3017, 21p., scale 1:24,000.

Gannett, Marshall W., and Caldwell, Rodney R., 1998, Geologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington, U. S. Geological Survey, Professional Paper 1424-A, 32 p., 8 plates.

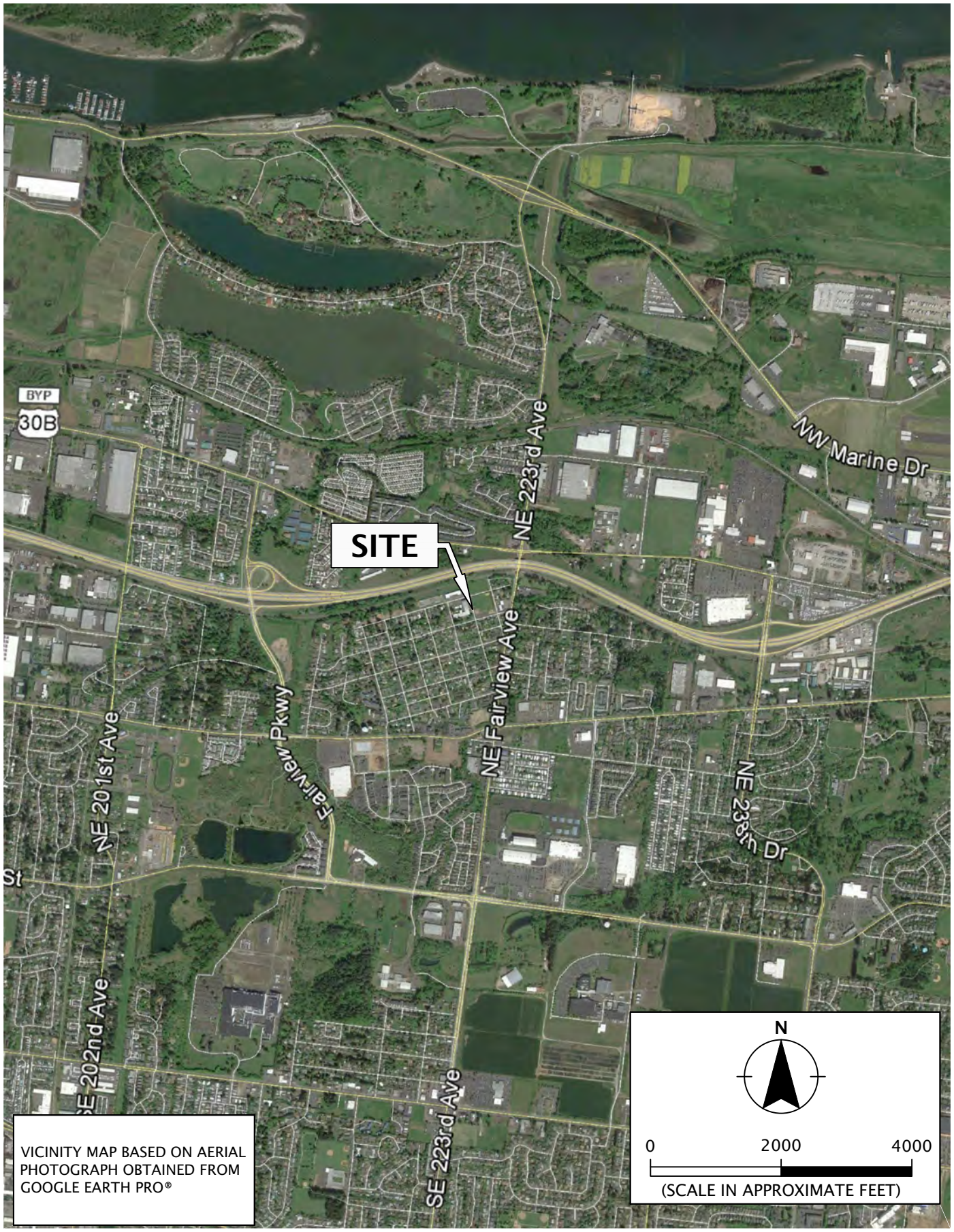
GeoDesign, Inc., 2016. *Phase I Environmental Site Assessment; Fairview Elementary School; 225 Main Street; Fairview, Oregon,* dated April 13, 2016. GeoDesign Project: ReynoldsSD-2-02

PBS, 2015. *System-Wide Assessment, Individual Water Pollution Control Facilities (WPCF) Permit for Class V Stormwater Underground Injection Control (UIC) Systems,* dated December 2015.

Pratt, T.L., Odum, J., Stephenson, W., Williams, R., Dadisman, S., Holmes, M., and Haug, B., 2001, Late Pleistocene and Holocene Tectonics of the Portland Basin, Oregon and Washington, from High-Resolution Seismic Profiling, Bulletin of the Seismological Society of America, 91, pp. 637-650.

Snyder, Daniel T., 2008, Estimated Depth to Ground Water and Configuration of the Water Table in the Portland, Oregon Area, prepared in cooperation with the City of Portland, the City of Gresham, Clackamas County's Water Environment Services, and Multnomah County, U.S. Geological Survey Scientific Investigations Report 2008–5059

FIGURES



VICINITY MAP BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®

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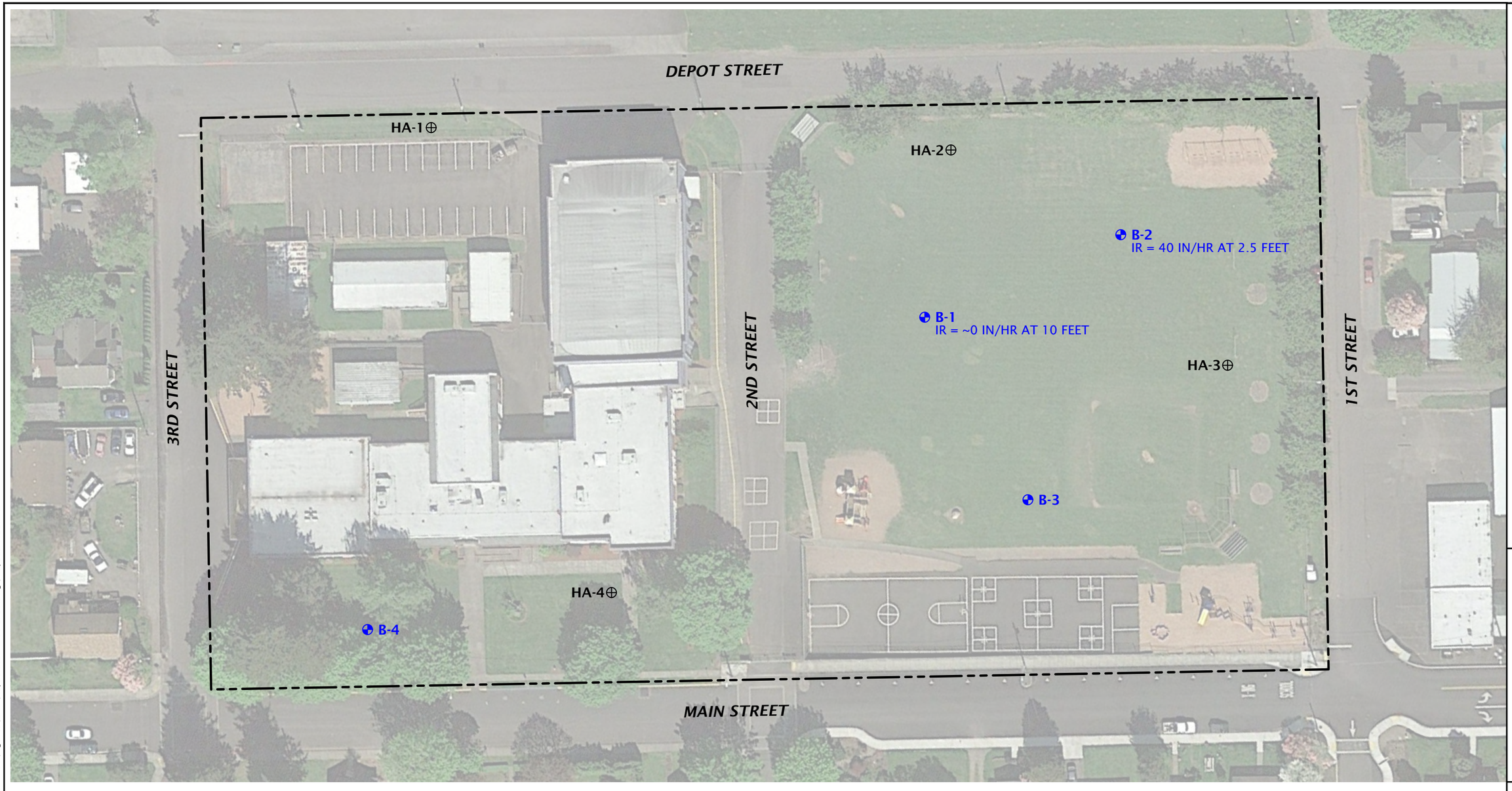
REYNOLDSSD-2-01	**VICINITY MAP**	
MAY 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR	**FIGURE 1**

Printed By: aday | Print Date: 5/9/2016 8:33:22 AM
File Name: J:\M-R\ReynoldsSD\ReynoldsSD-2\ReynoldsSD-2-01\Figures\CAD\ReynoldsSD-2-01-VM01.dwg | Layout: FIGURE 1



LEGEND:

— - - —	SITE BOUNDARY
HA-1⊕	HAND-AUGERED BORING
B-1◔	BORING
IR = 0 IN/HR AT 10 FEET	UNFACTORED INFILTRATION RATE

N

0 60 120

(SCALE IN FEET)

SITE PLAN BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®, APRIL 5, 2016

SITE PLAN

FIGURE 2

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

REYNOLDSSD-2-01

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APPENDIX A

APPENDIX A

FIELD EXPLORATIONS

GENERAL

We explored the site by drilling four borings (B-1 through B-4) to depths of 5.4 to 13.5 feet BGS and advancing four hand-augered borings (HA-1 through HA-4) to depths of approximately 3.5 to 10 feet BGS. The borings were drilled on March 24, 2016 using hollow-stem auger drilling methods by Western States Soil Conservation, Inc. of Hubbard, Oregon. The borings were observed by a member of our geology staff. The hand-augered borings were completed by a member of our geology on March 28 and April 15, 2016. The exploration logs are presented in this appendix.

Approximate locations of our explorations are shown on Figure 2. Exploration locations were chosen based on the preliminary site plans that were a part of the *Site Assessments & Master Plan Concepts* document provided to our office by Day CPM Services (see Appendix D). The locations of the explorations were determined in the field by pacing from existing site features. This information should be considered accurate only to the degree implied by the methods used.

SOIL SAMPLING

We obtained representative samples of the various soil encountered in the explorations for geotechnical laboratory testing. Soil samples were obtained from the borings using SPT sampling methods. SPTs were performed in general conformance with ASTM D 1586. The sampler was driven with a 140-pound hammer free-falling 30 inches. The number of blows required to drive the sampler 1 foot, or as otherwise indicated, into the soil is shown adjacent to the sample symbols on the exploration logs. Disturbed samples were obtained from the split barrel for subsequent classification and index testing. We obtained representative grab samples of the soil observed in the hand auger explorations. Sampling depths are shown on the exploration logs.

SOIL CLASSIFICATION

The soil samples were classified in accordance with the "Exploration Key" (Table A-1) and "Soil Classification System" (Table A-2), which are presented in this appendix. The exploration logs indicate the depths at which the soils or their characteristics change, although the change could be gradual. If the change occurred between sample locations, the depth was interpreted. Classifications are shown on the exploration logs.

The average efficiency of the automatic SPT hammer used by Western States Soil Conservation, Inc. was 85 percent. The calibration testing results are presented at the end of this appendix.

LABORATORY TESTING

CLASSIFICATION

The soil samples were classified in the laboratory to confirm field classifications. The laboratory classifications are shown on the exploration logs if those classifications differed from the field classifications.

MOISTURE CONTENT

We tested the natural moisture content of selected samples obtained from the explorations in general accordance with ASTM D 2216. The natural moisture content is a ratio of the weight of the water to soil in a test sample and is expressed as a percentage. The test results are presented in this appendix.

ATTERBERG LIMITS TESTING

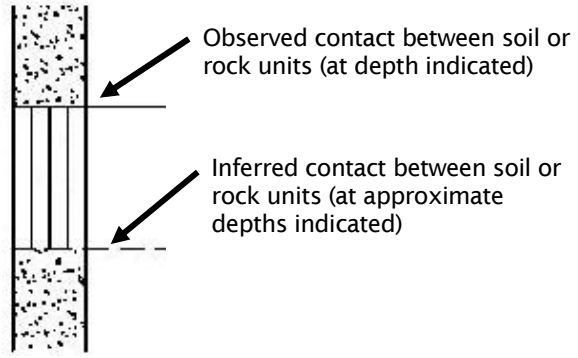
Atterberg limits (plastic and liquid limits) testing was performed on a selected sample in general accordance with ASTM D 4318. The plastic limit is defined as the moisture content where the soil becomes brittle. The liquid limit is defined as the moisture content where the soil begins to act similar to a liquid. The plasticity index is the difference between the liquid and plastic limits. The test results are presented in this appendix.

GRAIN-SIZE TESTING

Grain-size testing was performed on selected soil samples to determine the distribution of soil particle sizes. The testing consisted of particle-size analysis completed in accordance with percent fines determination (percent passing the U.S. Standard No. 200 sieve) completed in general accordance with the ASTM C 117 and ASTM D 1140 (P200). The test results are presented in this appendix.

SYMBOL	SAMPLING DESCRIPTION
	Location of sample obtained in general accordance with ASTM D 1586 Standard Penetration Test with recovery
	Location of sample obtained using thin-wall Shelby tube or Geoprobe® sampler in general accordance with ASTM D 1587 with recovery
	Location of sample obtained using Dames & Moore sampler and 300-pound hammer or pushed with recovery
	Location of sample obtained using Dames & Moore and 140-pound hammer or pushed with recovery
	Location of sample obtained using 3-inch-O.D. California split-spoon sampler and 140-pound hammer
	Location of grab sample
	Rock coring interval
	Water level during drilling
	Water level taken on date shown

Graphic Log of Soil and Rock Types



GEOTECHNICAL TESTING EXPLANATIONS

ATT	Atterberg Limits	PP	Pocket Penetrometer
CBR	California Bearing Ratio	P200	Percent Passing U.S. Standard No. 200 Sieve
CON	Consolidation		
DD	Dry Density	RES	Resilient Modulus
DS	Direct Shear	SIEV	Sieve Gradation
HYD	Hydrometer Gradation	TOR	Torvane
MC	Moisture Content	UC	Unconfined Compressive Strength
MD	Moisture-Density Relationship	VS	Vane Shear
OC	Organic Content	kPa	Kilopascal
P	Pushed Sample		

ENVIRONMENTAL TESTING EXPLANATIONS

CA	Sample Submitted for Chemical Analysis	ND	Not Detected
P	Pushed Sample	NS	No Visible Sheen
PID	Photoionization Detector Headspace Analysis	SS	Slight Sheen
		MS	Moderate Sheen
ppm	Parts per Million	HS	Heavy Sheen

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EXPLORATION KEY

TABLE A-1

RELATIVE DENSITY - COARSE-GRAINED SOILS

Relative Density	Standard Penetration Resistance	Dames & Moore Sampler (140-pound hammer)	Dames & Moore Sampler (300-pound hammer)
Very Loose	0 – 4	0 - 11	0 - 4
Loose	4 – 10	11 - 26	4 - 10
Medium Dense	10 – 30	26 - 74	10 - 30
Dense	30 – 50	74 - 120	30 - 47
Very Dense	More than 50	More than 120	More than 47

CONSISTENCY - FINE-GRAINED SOILS

Consistency	Standard Penetration Resistance	Dames & Moore Sampler (140-pound hammer)	Dames & Moore Sampler (300-pound hammer)	Unconfined Compressive Strength (tsf)
Very Soft	Less than 2	Less than 3	Less than 2	Less than 0.25
Soft	2 - 4	3 – 6	2 - 5	0.25 - 0.50
Medium Stiff	4 - 8	6 – 12	5 - 9	0.50 - 1.0
Stiff	8 - 15	12 – 25	9 - 19	1.0 - 2.0
Very Stiff	15 - 30	25 – 65	19 – 31	2.0 - 4.0
Hard	More than 30	More than 65	More than 31	More than 4.0

PRIMARY SOIL DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE-GRAINED SOILS (more than 50% retained on No. 200 sieve)	GRAVEL (more than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVELS (< 5% fines)	GW or GP	GRAVEL
		GRAVEL WITH FINES (≥ 5% and ≤ 12% fines)	GW-GM or GP-GM	GRAVEL with silt
			GW-GC or GP-GC	GRAVEL with clay
		GRAVELS WITH FINES (> 12% fines)	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND (50% or more of coarse fraction passing No. 4 sieve)	CLEAN SANDS (<5% fines)	SW or SP	SAND
		SANDS WITH FINES (≥ 5% and ≤ 12% fines)	SW-SM or SP-SM	SAND with silt
			SW-SC or SP-SC	SAND with clay
		SANDS WITH FINES (> 12% fines)	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOILS (50% or more passing No. 200 sieve)	SILT AND CLAY	Liquid limit less than 50	ML	SILT
			CL	CLAY
			CL-ML	silty CLAY
			OL	ORGANIC SILT or ORGANIC CLAY
		Liquid limit 50 or greater	MH	SILT
			CH	CLAY
			OH	ORGANIC SILT or ORGANIC CLAY
HIGHLY ORGANIC SOILS			PT	PEAT

MOISTURE CLASSIFICATION

Term	Field Test
dry	very low moisture, dry to touch
moist	damp, without visible moisture
wet	visible free water, usually saturated

ADDITIONAL CONSTITUENTS

Secondary granular components or other materials such as organics, man-made debris, etc.

Percent	Silt and Clay In: Fine-Grained Soils	Silt and Clay In: Coarse-Grained Soils	Percent	Sand and Gravel In: Fine-Grained Soils	Sand and Gravel In: Coarse-Grained Soils
< 5	trace	trace	< 5	trace	trace
5 – 12	minor	with	5 – 15	minor	minor
> 12	some	silty/clayey	15 – 30	with	with
			> 30	sandy/gravelly	Indicate %

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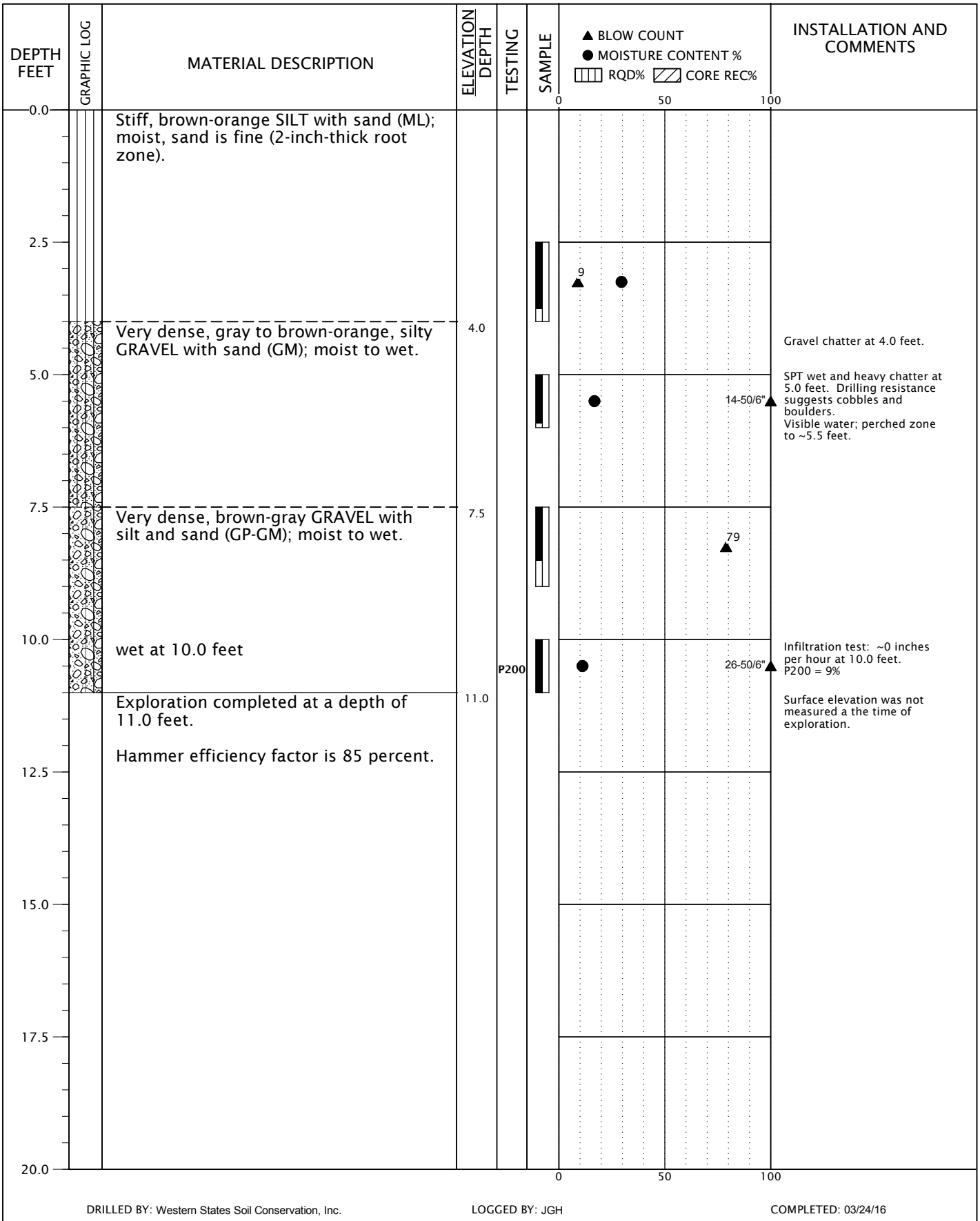
SOIL CLASSIFICATION SYSTEM

TABLE A-2



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/24/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

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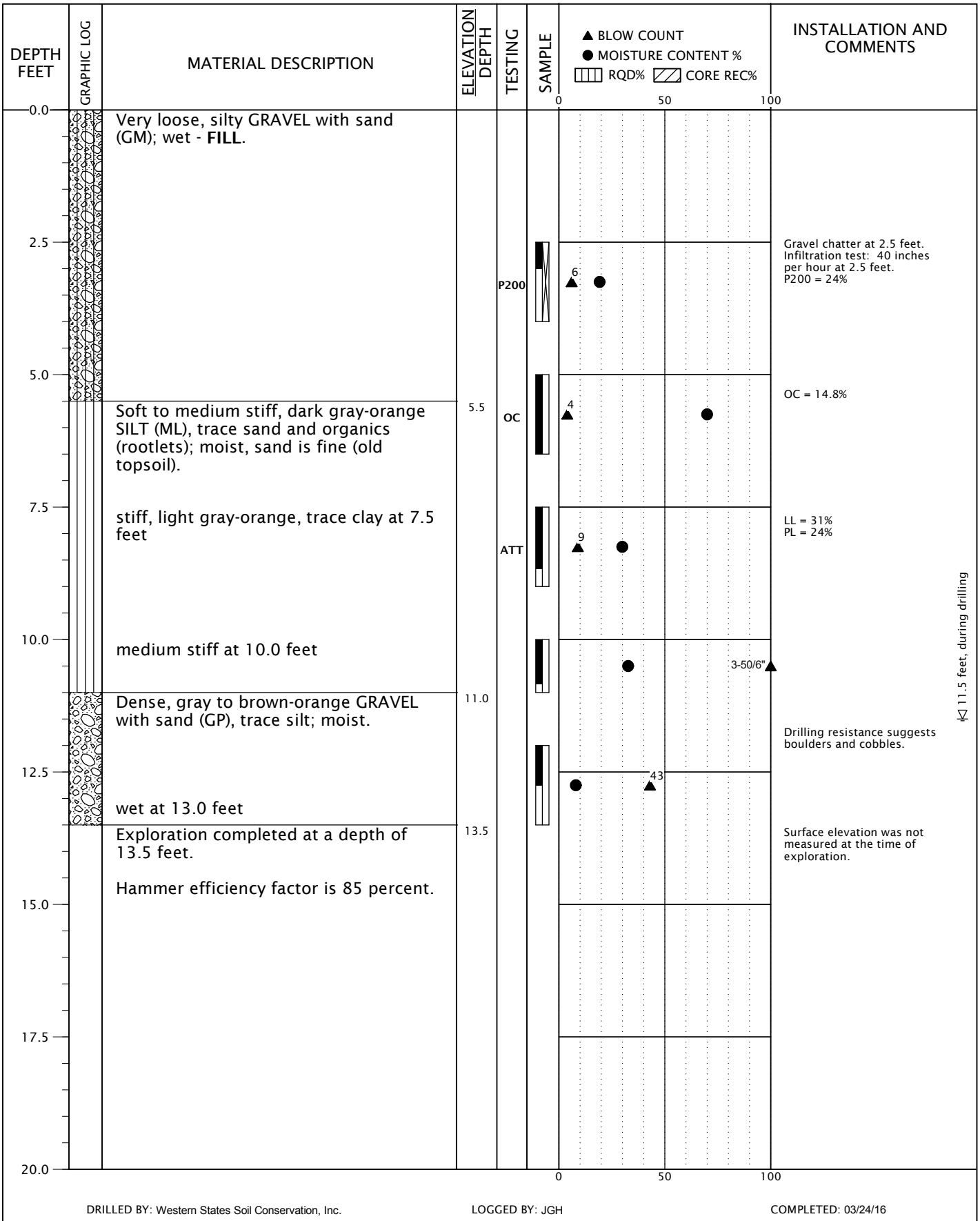
BORING B-1

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-1

BORING LOG REYNOLDSSD-2-01-B1_4-HA1_4.GPJ GEODESIGN.GDT PRINT DATE: 5/6/16:RC:KT



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/24/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

BORING LOG REYNOLDSSD-2-01-B1_4-HA1_4.GPJ GEODESIGN.GDT PRINT DATE: 5/6/16:RC:KT

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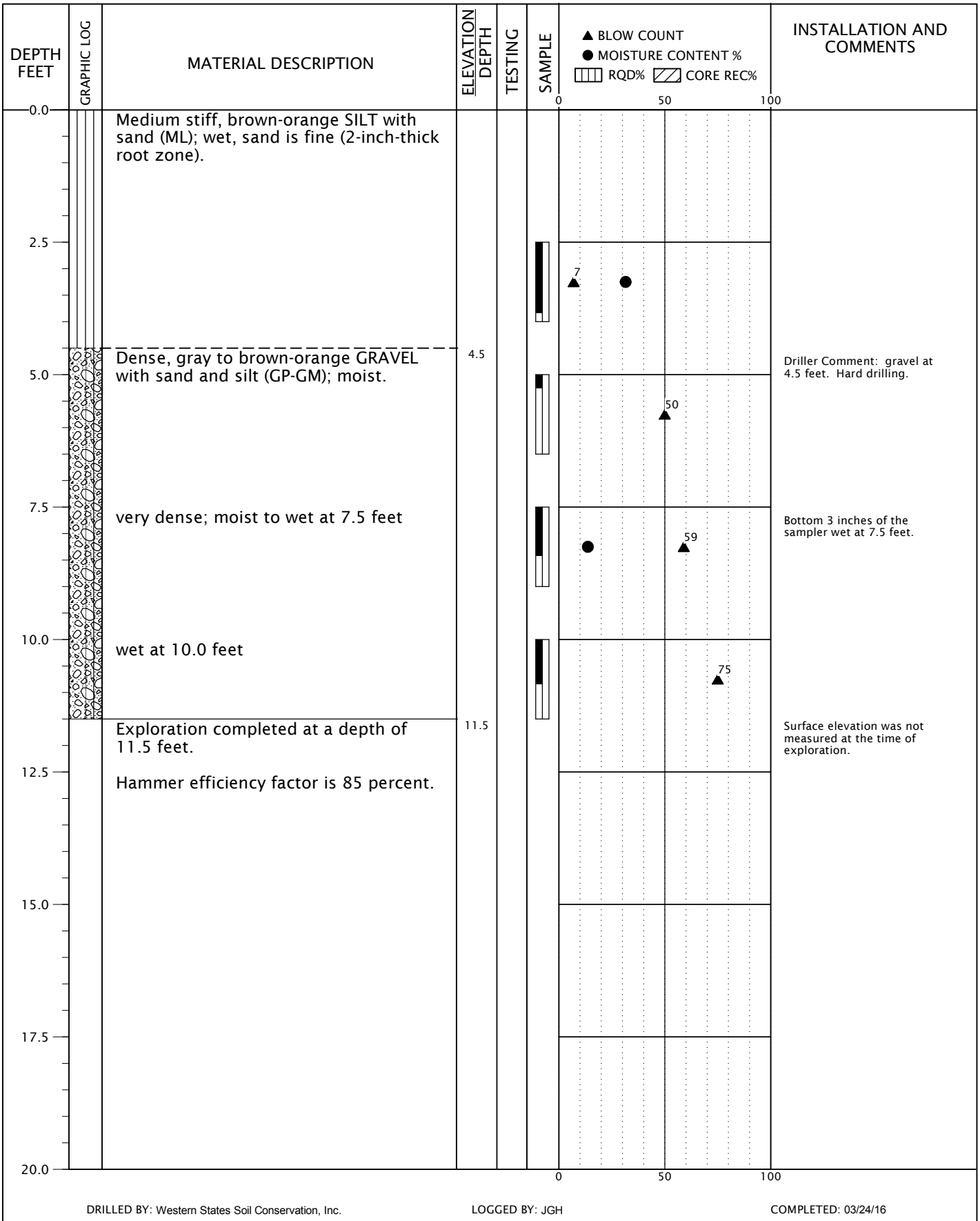
BORING B-2

MAY 2016

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-2



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/24/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

BORING LOG REYNOLDSSD-2-01-B1_4-HA1_4.GPJ GEODESIGN.GDT PRINT DATE: 5/6/16:RC:KT

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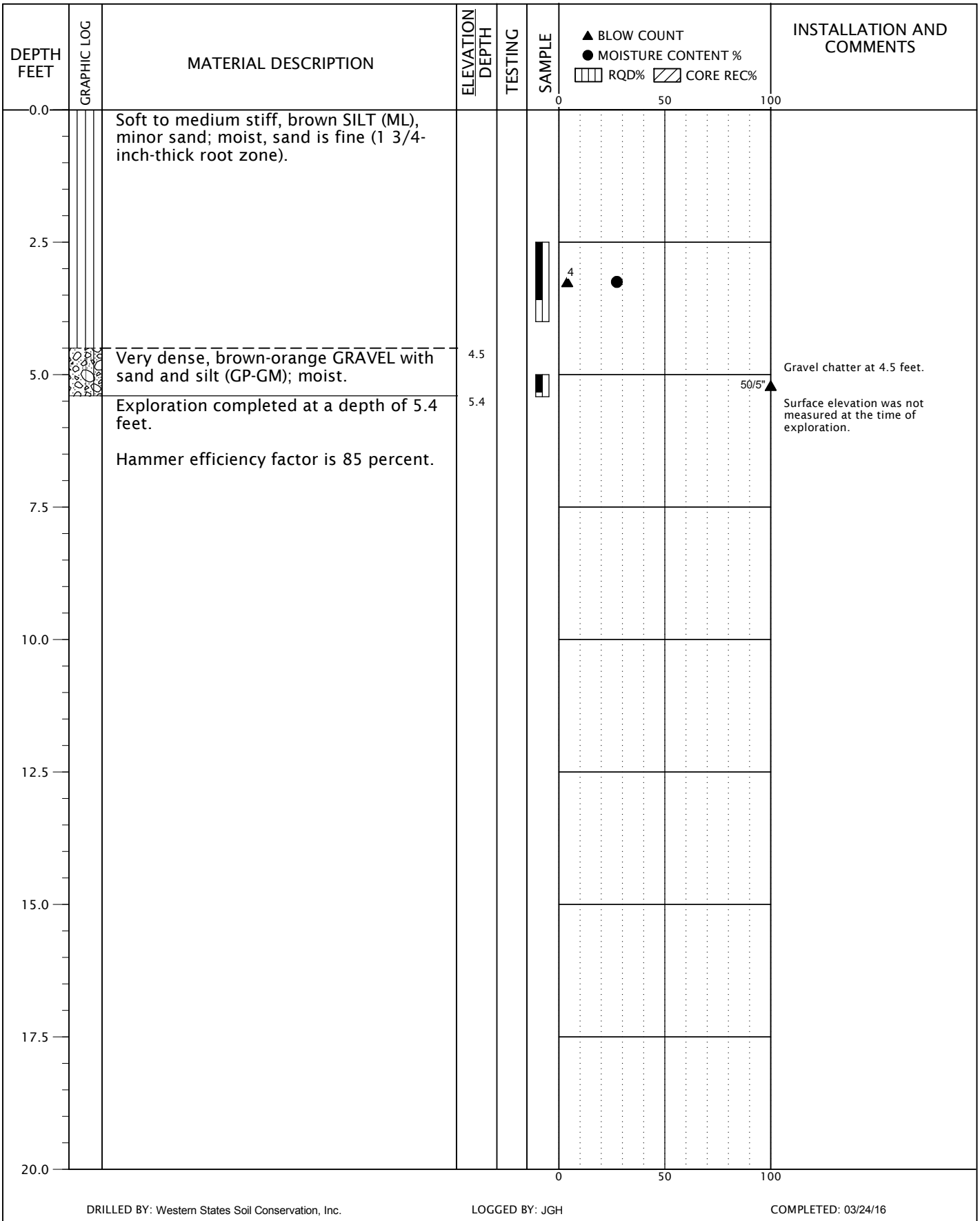
REYNOLDSSD-2-01

BORING B-3

MAY 2016

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-3



DRILLED BY: Western States Soil Conservation, Inc.

LOGGED BY: JGH

COMPLETED: 03/24/16

BORING METHOD: hollow-stem auger (see document text)

BORING BIT DIAMETER: 8 inches

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BORING B-4

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FIGURE A-4

BORING LOG REYNOLDSSD-2-01-B1_4-HA1_4.GPJ GEODESIGN.GDT PRINT DATE: 5/6/16:RC:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE
0.0		Medium stiff, gray-brown SILT with sand (ML), trace gravel and debris (plastic); moist (2-inch-thick root zone) - **FILL**.			
		Soft to medium stiff, light brown-orange SILT (ML), minor sand; moist, sand is fine.	1.5		
2.5		wet at 4.0 feet			
5.0					
7.5		Exploration terminated at a depth of 8.3 feet due to refusal on gravel.	8.3		
10.0					
12.5					
15.0					

▲ BLOW COUNT
● MOISTURE CONTENT %
RQD% CORE REC%
0 50 100

INSTALLATION AND COMMENTS

▽ 5.0 feet, during drilling

Surface elevation was not measured at the time of exploration.

DRILLED BY: GeoDesign, Inc. staff

LOGGED BY: JGH

COMPLETED: 03/28/16

BORING METHOD: hand auger (see document text)

BORING BIT DIAMETER: 3 1/2 inches

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BORING HA-1

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-5

BORING LOG REYNOLDSSD-2-01-B1_4-HA1_4.GPJ GEODESIGN.GDT PRINT DATE: 5/6/16:RC:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC% (0 / 50 / 100)	INSTALLATION AND COMMENTS
0.0		Soft to medium stiff, brown-orange to gray SILT with sand and debris (occasional glass, plastic) (ML), trace gravel and organics (roots); moist, sand is fine, organics are <1/8-inch diameter (2-inch-thick root zone) - **FILL**.					
2.5		moist to wet at 3.0 feet wet at 3.5 feet					
5.0		Medium stiff, light gray-orange SILT (ML), minor sand; moist, sand is fine. with sand; wet at 5.0 feet	4.5				Free water at 5.0 feet.
7.5		light brown-orange to gray, minor sand; moist to wet at 7.5 feet with sand; wet at 9.0 feet					Hard augering at 7.5 feet.
10.0		Exploration terminated at a depth of 10.0 feet due to refusal on gravel.	10.0				Surface elevation was not measured at the time of exploration.
12.5							
15.0							

▼ 5.0 feet, during drilling

DRILLED BY: GeoDesign, Inc. staff | LOGGED BY: JGH | COMPLETED: 04/15/16

BORING METHOD: hand auger (see document text) | BORING BIT DIAMETER: 3 1/2 inches

BORING LOG REYNOLDSSD-2-01-B1_4-HA1_4.GPJ GEODESIGN.GDT PRINT DATE: 5/6/16:RC:KT

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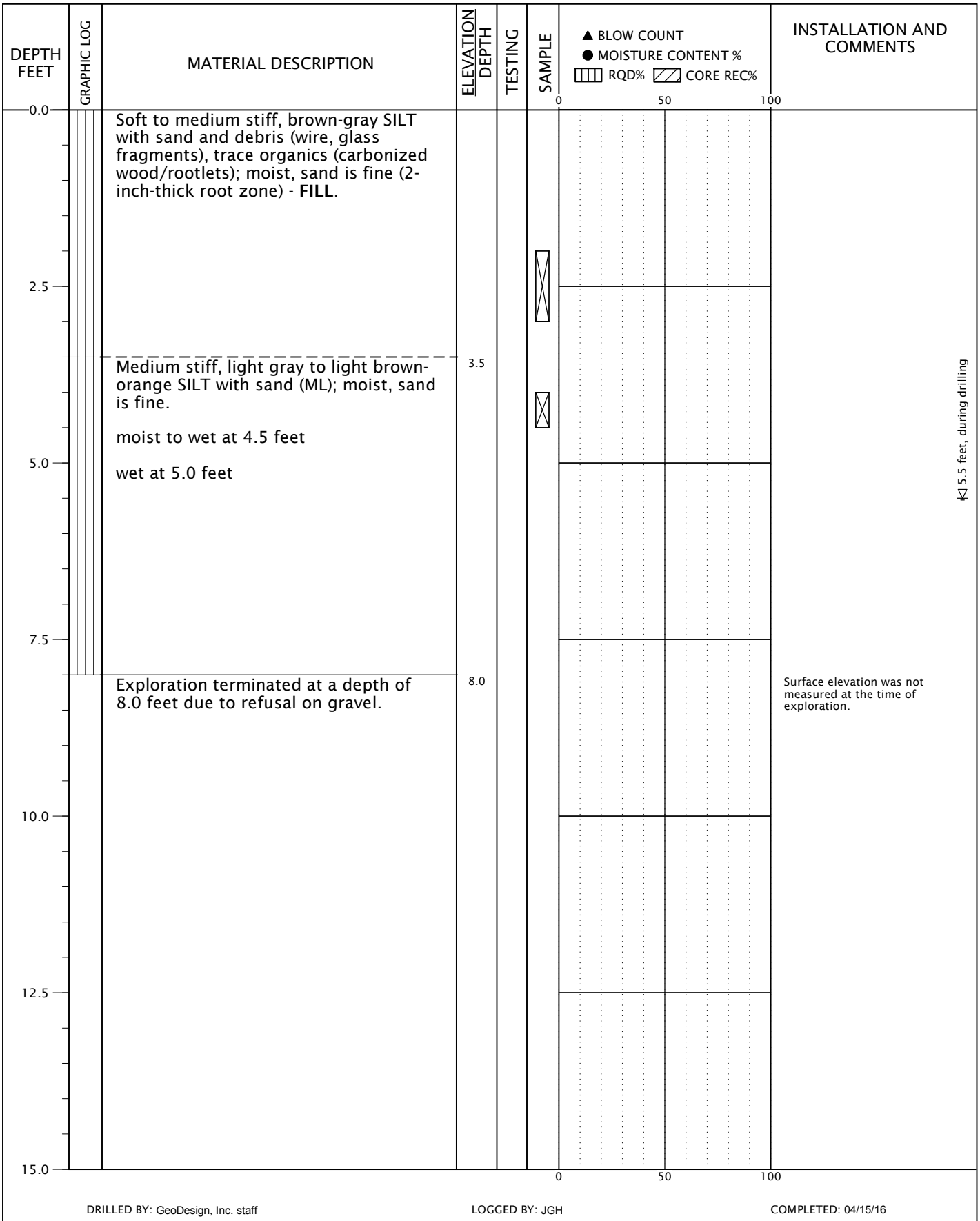
REYNOLDSSD-2-01

BORING HA-2

MAY 2016

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-6



DRILLED BY: GeoDesign, Inc. staff

LOGGED BY: JGH

COMPLETED: 04/15/16

BORING METHOD: hand auger (see document text)

BORING BIT DIAMETER: 3 1/2 inches

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BORING HA-3

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-7

BORING LOG REYNOLDSSD-2-01-B1_4-HA1_4.GPJ GEODESIGN.GDT PRINT DATE: 5/6/16:RC:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC% (0 50 100)	INSTALLATION AND COMMENTS
0.0		Medium stiff, dark brown SILT (ML), minor sand, trace organics (roots); moist, sand is fine, organics are up to 1/4-inch diameter (2 1/2- to 2 3/4-inch-thick root zone, topsoil).	1.0				Large trees.
2.5		Medium stiff, light brown SILT with sand (ML), trace organics (roots); moist, sand is fine, organics are up to 1/4-inch diameter.					
		Exploration terminated at a depth of 3.5 feet due to refusal on gravel.	3.5				Surface elevation was not measured at the time of exploration.
5.0							
7.5							
10.0							
12.5							
15.0							

DRILLED BY: GeoDesign, Inc. staff | LOGGED BY: JGH | COMPLETED: 04/15/16

BORING METHOD: hand auger (see document text) | BORING BIT DIAMETER: 3 1/2 inches

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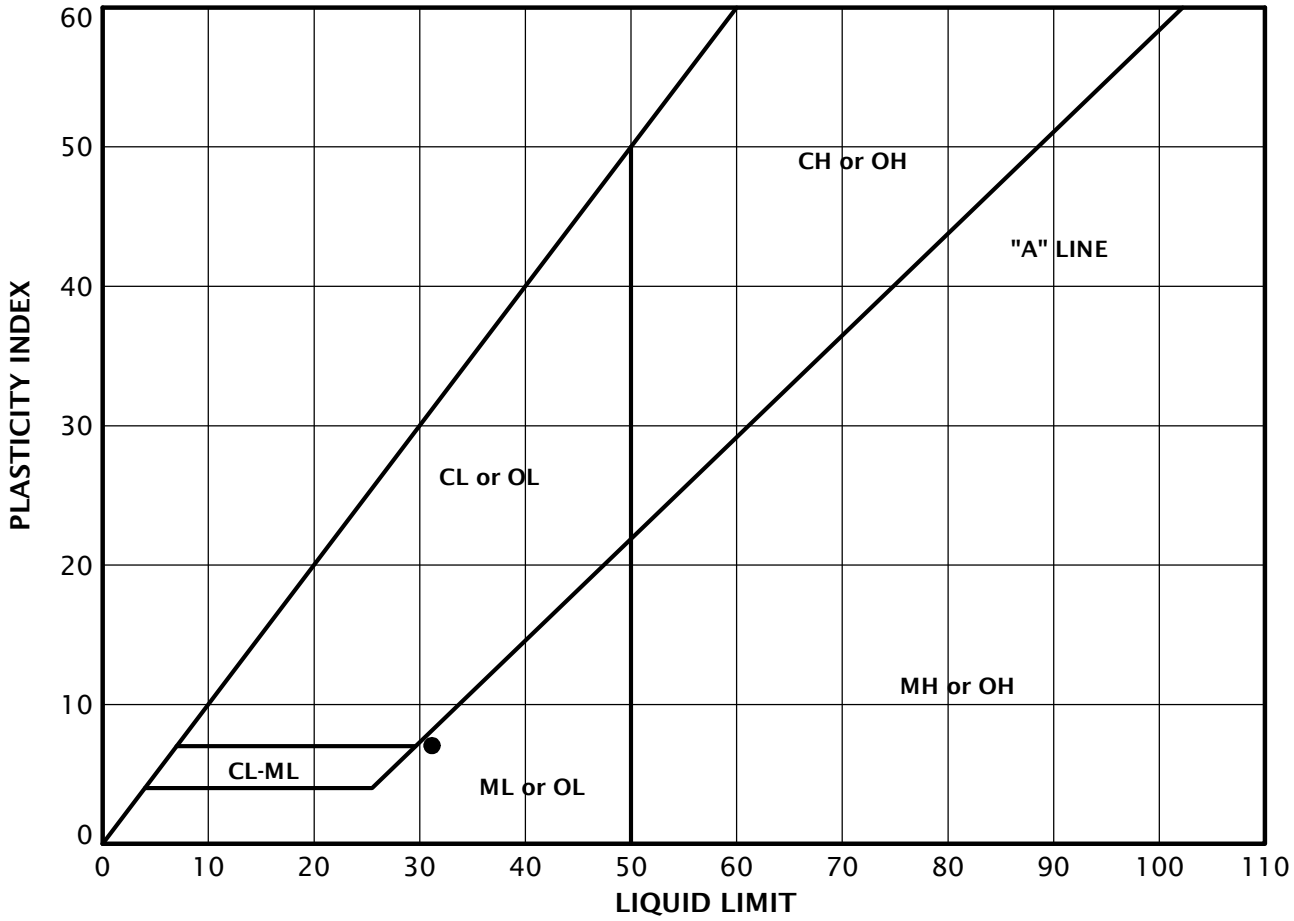
BORING HA-4

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-8

BORING LOG REYNOLDSSD-2-01-B1_4-HA1_4.GPJ GEODESIGN.GDT PRINT DATE: 5/6/16:RC:KT



KEY	EXPLORATION NUMBER	SAMPLE DEPTH (FEET)	MOISTURE CONTENT (PERCENT)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
●	B-2	7.5	30	31	24	7

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ATTERBERG LIMITS TEST RESULTS

MAY 2016

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-9

SAMPLE INFORMATION			MOISTURE CONTENT (PERCENT)	DRY DENSITY (PCF)	SIEVE			ATTERBERG LIMITS		
EXPLORATION NUMBER	SAMPLE DEPTH (FEET)	ELEVATION (FEET)			GRAVEL (PERCENT)	SAND (PERCENT)	P200 (PERCENT)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
B-1	2.5		30							
B-1	5.0		17							
B-1	10.0		11				9			
B-2	2.5		19				24			
B-2	5.0		70							
B-2	7.5		30					31	24	7
B-2	10.0		33							
B-2	12.0		8							
B-3	2.5		31							
B-3	7.5		14							
B-4	2.5		27							
HA-1	1.0		45							
HA-1	2.0		27							
HA-1	4.5		34							

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-2-01

MAY 2016

SUMMARY OF LABORATORY DATA

FAIRVIEW ELEMENTARY SCHOOL
FAIRVIEW, OR

FIGURE A-10

WSSC-7-01 - TEST BORING B-7 25FT
OP: WMN

TRACK RIG NO. 2
Date: 30-May-2015

AR: 1.41 in²
LE: 29.25 ft
WS: 16,807.9 f/s

SP: 0.492 k/ft³
EM: 30,000 ksi
JC: 0.00 []

ETR: Energy Transfer Ratio
EMX: Max Transferred Energy
CSB: Compression Stress at Bottom
BPM: Blows per Minute
FFS: Force Full Scale

DMX: Maximum Displacement
SFR: Skin friction w/ damping correction
MEX: Maximum Strain
VMX: Maximum Velocity

BL#	depth ft	BLC bl/ft	ETR (%)	EMX k-ft	CSB ksi	BPM bpm	FFS kips	DMX in	SFR kips	MEX µE	VMX f/s
10	25.16	6	81.3	0.3	0.0	48.5	60	1.09	0	957	13.6
12	25.48	6	87.0	0.3	0.0	49.1	60	0.82	0	973	14.4
14	25.81	6	83.8	0.3	0.0	49.0	60	0.67	0	915	14.0
16	26.13	6	86.2	0.3	0.0	48.7	60	0.57	0	986	14.4
18	26.45	6	83.8	0.3	0.0	48.7	60	0.53	0	974	14.1
20	26.77	6	85.7	0.3	0.0	48.7	60	0.56	0	950	14.3
22	27.10	6	85.0	0.3	0.0	48.8	60	0.57	0	942	14.2
24	27.42	6	86.7	0.3	0.0	48.3	60	0.61	0	985	14.5
26	27.74	6	84.7	0.3	0.0	48.6	60	0.57	0	968	14.4
28	28.06	6	86.4	0.3	0.0	48.2	60	0.82	0	941	14.5
30	28.39	6	84.0	0.3	0.0	48.3	60	0.56	0	939	14.0
40	30.00	6	85.1	0.3	0.0	48.5	60	1.03	0	900	14.8
42	30.27	7	81.9	0.3	0.0	48.8	60	0.59	0	893	13.8
44	30.54	7	82.0	0.3	0.0	48.8	60	0.97	0	912	13.8
46	30.81	7	85.4	0.3	0.0	48.5	60	0.59	0	936	14.3
48	31.08	7	81.7	0.3	0.0	48.6	60	0.49	0	873	13.7
50	31.35	7	85.7	0.3	0.0	48.3	60	0.55	0	920	14.0
52	31.62	7	84.4	0.3	0.0	48.3	60	0.56	0	928	14.0
54	31.89	7	84.0	0.3	0.0	48.4	60	0.48	0	865	13.9
56	32.16	7	88.3	0.3	0.0	48.4	60	0.89	0	914	14.5
58	32.43	7	82.2	0.3	0.0	48.5	60	0.38	0	937	13.9
60	32.70	7	84.1	0.3	0.0	48.7	60	1.12	0	858	13.5
62	32.97	7	86.7	0.3	0.0	48.4	60	0.93	0	883	14.1
64	33.24	7	83.0	0.3	0.0	48.6	60	0.95	0	929	13.9
66	33.51	7	81.1	0.3	0.0	48.3	60	0.36	0	911	13.7
82	35.67	7	84.7	0.3	0.0	48.7	60	0.66	0	809	16.1
84	35.83	13	82.9	0.3	0.0	48.7	60	0.53	0	780	15.2
86	35.98	13	84.6	0.3	0.0	48.8	60	0.67	0	796	15.6
88	36.14	13	84.7	0.3	0.0	48.5	60	0.75	0	790	15.8
90	36.30	13	83.8	0.3	0.0	48.2	60	0.55	0	794	16.1
92	36.46	13	85.8	0.3	0.0	48.5	60	0.43	0	867	17.1
94	36.61	13	87.3	0.3	0.0	48.6	60	1.18	0	858	17.0
96	36.77	13	82.1	0.3	0.0	48.5	60	0.38	0	803	15.5
98	36.93	13	83.0	0.3	0.0	48.5	60	0.67	0	782	15.6
100	37.09	13	83.9	0.3	0.0	48.7	60	0.37	0	861	16.8
102	37.24	13	85.3	0.3	0.0	48.5	60	0.37	0	882	17.1
104	37.40	13	83.7	0.3	0.0	48.4	60	0.37	0	879	16.7
106	37.56	13	84.7	0.3	0.0	48.3	60	0.37	0	848	17.4
108	37.72	13	84.8	0.3	0.0	48.3	60	0.38	0	855	16.8
110	37.87	13	84.2	0.3	0.0	48.4	60	0.37	0	869	16.6
112	38.03	13	86.9	0.3	0.0	48.3	60	0.45	0	883	17.5
114	38.19	13	86.1	0.3	0.0	48.5	60	0.44	0	869	17.3
116	38.35	13	84.3	0.3	0.0	48.4	60	0.83	0	858	16.2
118	38.50	13	84.8	0.3	0.0	48.3	60	0.38	0	860	16.4
120	38.66	13	85.2	0.3	0.0	48.3	60	0.68	0	839	16.1

WSSC-7-01 - TEST BORING B-7 25FT
OP: WMN

TRACK RIG NO. 2
Date: 30-May-2015

BL#	depth	BLC	ETR	EMX	CSB	BPM	FFS	DMX	SFR	MEX	VMX
	ft	bl/ft	(%)	k-ft	ksi	bpm	kips	in	kips	µE	f/s
122	38.82	13	84.2	0.3	0.0	48.4	60	0.37	0	872	16.7
124	38.98	13	84.7	0.3	0.0	48.4	60	0.75	0	836	16.6
126	39.13	13	83.4	0.3	0.0	48.3	60	0.48	0	834	16.0
137	40.00	13	84.9	0.3	0.0	50.8	60	0.56	0	925	14.9
139	40.16	13	85.4	0.3	0.0	50.3	60	0.54	0	917	14.7
141	40.31	13	84.1	0.3	0.0	50.4	60	0.50	0	914	14.3
143	40.47	13	87.5	0.3	0.0	50.3	60	0.83	0	933	14.6
145	40.63	13	86.8	0.3	0.0	50.6	60	0.85	0	929	14.1
147	40.79	13	86.4	0.3	0.0	50.6	60	0.66	0	948	14.6
149	40.94	13	84.2	0.3	0.0	50.7	60	0.44	0	929	14.4
151	41.10	13	85.2	0.3	0.0	50.5	60	0.45	0	933	14.0
153	41.26	13	85.8	0.3	0.0	50.5	60	0.56	0	924	14.4
155	41.42	13	86.6	0.3	0.0	50.4	60	0.63	0	936	14.5
157	41.57	13	85.7	0.3	0.0	50.8	60	0.55	0	926	14.7
159	41.73	13	86.8	0.3	0.0	50.6	60	0.51	0	930	14.4
161	41.89	13	85.6	0.3	0.0	50.5	60	0.55	0	899	13.7
163	42.05	13	87.3	0.3	0.0	50.5	60	0.92	0	918	13.8
165	42.20	13	85.5	0.3	0.0	50.1	60	0.86	0	923	13.5
167	42.36	13	85.1	0.3	0.0	50.8	60	0.71	0	922	13.8
		Average	85.0	0.3	0.0	49.0	60	0.64	0	892	15.0
		Std. Dev.	1.8	0.0	0.0	0.9	0	0.25	0	53	1.2

Total number of blows analyzed: 128

BL# Sensors

9-167 F3: [SPT B1] 217.8 (1.00); F4: [SPT B2] 218.9 (1.00); A3: [K0232] 290.0 (1.00); A4: [K0231] 325.0 (1.00)

BL# Comments

31 N: 7,9,14
40 LE = 34.20 ft; WC = 16,765.8 f/s
67 N: 7,10,18
82 LE = 39.42 ft; WC = 16,764.7 f/s
127 N: 13, 20, 26
137 LE = 44.10 ft; WC = 16,774.5 f/s
167 N: 8,15,16

Time Summary

Drive	27 seconds	5:31 PM - 5:32 PM (5/30/2015) BN 9 - 31
Stop	14 minutes 52 seconds	5:32 PM - 5:47 PM
Drive	33 seconds	5:47 PM - 5:47 PM BN 40 - 67
Stop	19 minutes 59 seconds	5:47 PM - 6:07 PM
Drive	55 seconds	6:07 PM - 6:08 PM BN 82 - 127
Stop	16 minutes 13 seconds	6:08 PM - 6:24 PM
Drive	35 seconds	6:24 PM - 6:25 PM BN 137 - 167

Total time [00:53:37] = (Driving [00:02:31] + Stop [00:51:06])

APPENDIX B

APPENDIX B

NEARBY WELL LOGS

Two nearby well logs obtained from OWRD are presented in this appendix.

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
MAR 7 1973
STATE ENGINEER
SALEM, OREGON

MULT 001368

WATER WELL REPORT
STATE OF OREGON
(Please type or print) (Do not write above this line)

State Well No. 1N/3E-28
State Permit No.

(1) OWNER:
Name City of Fairview
Address 300 Harrison Ave. Fairview, Or. 97024

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [ ] Driven [ ]
Cable [X] Jetted [ ]
[ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [ ] Industrial [ ] Municipal [X]
Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED:
Threaded [ ] Welded [X]
16" Diam. from 0 ft. to 360' 9" ft. Gage .312
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [X] Yes [ ] No.
Type of perforator used Star 4 Way (2 runs 8 rows)
Size of perforations 1¼ in. by 3/8 in.
960 perforations from 270 ft. to 290 ft.
480 perforations from 330 ft. to 340 ft.
672 perforations from 341 ft. to 355 ft.

(7) SCREENS:
Well screen installed? [ ] Yes [X] No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level Bottner
Was a pump test made? [X] Yes [ ] No If yes, by whom? Drilling
324 gal./min. with 53 ft. drawdown after 6 hrs.
508 " 86 " 8 "
609 " 103 " 6 "
Bailer test 708 gal./min. with 128 ft. drawdown after 4 hrs.
Artesian flow 800 g.p.m. 155 24
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used BENTONITE & CEMENT
Well sealed from land surface to 67 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 16 in.
Number of sacks of cement used in well seal 18 sacks
Number of sacks of bentonite used in well seal 2 sacks
Brand name of bentonite BAROID
Number of pounds of bentonite per 100 gallons of water APPROX. 100 lbs./100 gals.
Was a drive shoe used? [X] Yes [ ] No Plugs Size: location ft.
Did any strata contain unusable water? [X] Yes [ ] No
Type of water? To Sandy depth of strata 248 to 259
Method of sealing strata off Cased
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Multnomah Driller's well number
¼ ¼ Section 28 T. 1N R. 3E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 98 ft.
Static level 96 ft. below land surface. Date 2/14/73
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing Cased to bottom
Depth drilled 360 ft. Depth of completed well 360 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Top Soil	0	4	
Boulders	4	21	
Gravel, loose	21	25	
Gravel, cemented	25	92	
Clay, brown	92	98	
Sand, black	98	105	38
Clay, yellow	105	112	
Clay, blue	112	125	
Gravel, cemented	125	172	
Gravel with sand	172	191	
Gravel, cemented & bldrs.	191	248	
Sand, brown	248	259	
Gravel & gray sand W. brng.	259	296	
Sand, brown & gravel	296	312	
Rock	312	314	
Sand, black	314	324	
Gravel & sand (water at 324)	324	329	
Gravel, large w/brown sand	329	360	104

Work started August 16 19 72 Completed Feb. 14 19 73
Date well drilling machine moved off of well Feb. 15 19 73

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Earl V. Baker (Drilling Machine Operator) Date 3-2-, 19 73
Drilling Machine Operator's License No. 190

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name HAAKON BOTTNER DRILLING COMPANY (Person, firm or corporation) (Type or print)
Address 3424 S.E. 174 AV., PORTLAND, OR.
[Signed] Haakon Bottner (Water Well Contractor)
Contractor's License No. 109 Date March 32d. 19 73

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

MULT 4974

Styles Drilling, Inc.
1169 Molalla Ave.
Oregon City, OR 97045
656-2683

01N | 03E | 28CC

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

(START CARD) # 83540

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 01
Name Thomas & Barbara Hood
Address 20401 NE Wistful Vista
City Troutdale State Or. Zip 97060

(2) TYPE OF WORK
[X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD:
[X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger
[X] Other odex

(4) PROPOSED USE:
[X] Domestic [ ] Community [ ] Industrial [ ] Irrigation
[ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval [ ] Yes [X] No Depth of Completed Well 79 ft.
Explosives used [ ] Yes [X] No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
10"	0	19	Gran Bent	19	0	11 sacks
7½"	19	79				

How was seal placed: Method [ ] A [ ] B [ ] C [ ] D [ ] E
[X] Other Poured in dry
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	+2	78	.250	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]
Liner:	None				[ ]	[ ]	[ ]	[ ]
					[ ]	[ ]	[ ]	[ ]

Final location of shoe(s) 78' odex

(7) PERFORATIONS/SCREENS:
[ ] Perforations Method
[ ] Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
None						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]
						[ ]	[ ]

(8) WELL TESTS: Minimum testing time is 1 hour
[ ] Pump [ ] Bailer [X] Air [ ] Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
100+		74	1 hr.

Temperature of water 54.6° Depth Artesian Flow Found
Was a water analysis done? [X] Yes By whom driller no iron
Did any strata contain water not suitable for intended use? [ ] Too little
[ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Multnomah Latitude Longitude
Township 1 North N or S Range 3 East E or W. WM.
Section 28CC SW 1/4 SW 1/4
Tax Lot 400 Lot Block Subdivision
Street Address of Well (or nearest address) 20401 NE Wistful Vista Troutdale, Or.

(10) STATIC WATER LEVEL:
20 ft. below land surface. Date 8-25-95
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 30'

From	To	Estimated Flow Rate	SWL
30	38	Trace	20
38	66	30	20
66	79	70+	20

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Soil Brown	0	5	
Clay Brown Sandy	5	8	
Gravel Cobbles & Sand	8		
Gray		30	
Sand & Gravel Brown	30	38	20
Gravel Multicolor med.	38		
to Small w/Sand course			
Multicolor		66	20
Gravel & Cobbles semi-	66		
cemented		79	20

RECEIVED
SEP 1 1995
WATER RESOURCES DEPT.
SALEM, OREGON

Date started 8-24-95 Completed 8-25-95

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
Signed Steve D. Kenn WWC Number 1601 Date 9/5/95

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Signed Steven C. Bland WWC Number 1592 Date 9-12-95

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

APPENDIX C

APPENDIX C

SITE-SPECIFIC SEISMIC HAZARD EVALUATION

INTRODUCTION

The information in this appendix summarizes the results of a site-specific seismic hazard evaluation for the proposed Fairview Elementary School in Fairview, Oregon. This seismic hazard evaluation was performed in accordance with the requirements of the 2014 SOSSC and ASCE 7-10.

SITE CONDITIONS

REGIONAL GEOLOGY

A detailed description of the geologic setting is presented in the main report.

SUBSURFACE CONDITIONS

A detailed description of site subsurface conditions is presented in the main report.

SEISMIC SETTING

Earthquake Source Zones

Three scenario earthquakes were considered for this study consistent with the local seismic setting. Two of the possible earthquake sources are associated with the CSZ, and the third event is a shallow local crustal earthquake that could occur in the North American plate. The three earthquake scenarios are discussed below.

Regional Events

The CSZ is the region where the Juan de Fuca Plate is being subducted beneath the North American Plate. This subduction is occurring in the coastal region between Vancouver Island and northern California. Evidence has accumulated suggesting that this subduction zone has generated eight great earthquakes in the last 4,000 years, with the most recent event occurring approximately 300 years ago (Weaver and Shedlock, 1991). The fault trace is mapped approximately 50 to 120 km off the Oregon Coast. Two types of subduction zone earthquakes are possible and considered in this study:

1. An interface event earthquake on the seismogenic part of the interface between the Juan de Fuca Plate and the North American Plate on the CSZ. This source is reportedly capable of generating earthquakes with a moment magnitude of between 8.5 and 9.0.
2. A deep intraplate earthquake on the seismogenic part of the subducting Juan de Fuca Plate. These events typically occur at depths of between 30 and 60 km. This source is capable of generating an event with a moment magnitude of up to 7.5.

Local Events

A significant earthquake could occur on a local fault near the site within the design life of the facility. Such an event would cause ground shaking at the site that could be more intense than the CSZ events, though the duration would be shorter. Figure C-1 shows the locations of faults

with potential Quaternary movement within a 20-mile radius of the site. Figure C-2 shows the interpreted locations of seismic events that occurred between 1833 and 1993 (USGS, 2010). The most significant faults in the site vicinity are the Grant Butte and Damascus-Tickle Creek fault zones, Lacamas Lake, and East Bank fault. A discussion of these faults is provided below.

Grant Butte and Damascus-Tickle Creek Fault Zones

The Grant Butte fault zone is an east to northeast-trending fault within the Portland Basin (Geomatrix, 1995). It has been mapped as a series of randomly oriented faults with the Troutdale Formation. The Damascus-Tickle Creek fault zone displaces Pliocene and Pleistocene sediments and is northwest trending. Relatively short faults comprise the complex. A probability of activity of 0.5 has been assigned to these fault zones with maximum rupture lengths equal to the total fault zone length.

Lacamas Lake Fault

The Lacamas Lake fault is a northwest-trending, strike-slip fault or oblique-slip fault. It is estimated to have a 0.5 probability of activity and a maximum rupture length of up to 10 miles (Geomatrix, 1995). The slip rate is likely relatively low. There has been no recorded activity along the fault, although a 1989 earthquake may be associated with a subsurface section of this fault.

East Bank Fault

The East Bank fault is a north to south-trending fault mapped west of the site. The fault location is inferred because it is completely covered by river sediment. The fault was mapped by magnetic patterns observed during past geophysical studies. There have been no known seismic events along this fault.

Local Event on an Unknown Fault

There are several other faults located within 20 miles of the site. The historical seismic record in Oregon indicates poor correlation between mapped surface faults and crustal earthquake epicenters. The current explanation for this difficulty is that secondary buried faults are responsible for most of the recorded seismic events near the study area. Therefore, a moderate earthquake could occur closer to the site than the nearest mapped fault. The magnitude of this event would likely be less than a moment magnitude $M_w = 6.0$.

Table C-1. Significant Crustal Faults

Source	Closest Mapped Distance[1] (miles)	Mapped Length[1] (km)
Grant Butte Fault Zone	2.0	10
Damascas-Tickle Creek Fault Zone	2.0	16
Lacamas Lake Fault	2.7	24
East Bank Fault	5.0	29

1. reported by USGS (USGS, 2014)

SEISMIC RESPONSE ANALYSIS

RISK TARGETED BEDROCK SPECTRUM

We obtained a probabilistic bedrock spectrum for the site from the USGS national seismic mapping project. We determined the spectral accelerations for the outcropping bedrock response spectrum for periods ranging from 0 to 5 seconds. The response spectrum is consistent with a shear wave velocity equal to 760 meters per second in the upper 30 meters of the soil profile. ASCE 7-10 requires that the ground motions be defined in terms of the maximum direction of horizontal response. The maximum direction was adopted as the ground motion intensity parameter for use in lieu of explicit consideration of directional effects. The maximum horizontal response may reasonably be estimated by factoring the average response period by period dependent factors. The commentary to ASCE 7-10 recommends a factor of 1.1 at short periods, 1.3 at a period of 1 second, and 1.5 at 5 seconds and greater. They recommend interpolation between the periods.

The risk targeted bedrock spectrum, MCE_R, target bedrock spectrum was computed using Method 1 outlined in the ASCE 7-10 Section 21.2.1.1. A risk coefficient of $C_{RS} = 0.895$ was applied to the spectrum at periods of 0.2 second or less and a risk coefficient of $C_{R1} = 0.873$ was applied to the spectrum at periods greater than or equal to 1 second. Linear interpolation was used to compute risk coefficients between periods of 0.2 and 1.0 second. The intent of this is to achieve a 1 percent collapse of the structure in a 50-year period. Table C-2 presents a summary of values used to compute the MCE_R target bedrock response spectrum.

Table C-2. Risk Targeted Bedrock Spectrum

Period (seconds)	MCE Target Bedrock Spectral Acceleration (g)	Maximum Direction Factor	C_R	MCE_R Target Bedrock Spectral Acceleration (g)
0.0	0.4248	1.1	0.895	0.41822
0.1	0.8887	1.1	0.895	0.87493
0.2	1.0008	1.1	0.895	0.98529
0.3	0.8402	1.125	0.892	0.84338
0.5	0.6371	1.175	0.887	0.66381
1.0	0.3531	1.3	0.873	0.40073
2.0	0.1716	1.35	0.873	0.20224
3.0	0.09332	1.4	0.873	0.11406
4.0	0.05889	1.45	0.873	0.07455
5.0	0.03737	1.5	0.873	0.04894

BASE GROUND MOTIONS

Six recorded base ground motions were selected to represent the local seismic setting. We considered faulting mechanism, magnitude, and distance to recording station. Ground motions at the site are controlled by a crustal event and the CSZ interface event. We selected three

acceleration time histories to represent each of these seismic sources as input for the seismic response analysis. Table C-3 provides the ground motions selected for this study.

Table C-3. Selected Ground Motions

Ground Motion/Year/Recording Station	Magnitude	Distance (km)	Component
Crustal Records			
Imperial Valley/El Centro Array #8	6.53	5.6	140
Loma Prieta/Saratoga – Aloha Ave.	6.93	8.5	00
Nahanni, Canada 1985/Site 1	6.76	9.6	00
Subduction Zone Records			
Valparaiso 1985/Pichilemu	7.8	80	90
Michoacan 1985/La Union	8.0	84	N00W
Tohoku 2011 - TKC	9.0	106.9	004

SITE CONDITION MODELING

We determined acceleration response spectra for the postulated scenarios discussed above by performing a site-specific seismic response analysis. An equivalent linear seismic response analysis as described in ASCE 7-10 Section 21.1.2. The site response analysis was performed using the SHAKE 91+ module of the EZ-FRISK 8.0 software package.

The input soil model used in our analysis is based on the findings of our subsurface exploration program. A detailed description of site subsurface conditions is provided in the main report. Shear wave velocities for the soils were estimated using SPT blow count and shear wave velocity correlations. Table C-4 provides a summary of the soil model used in our analysis. The acceleration response spectra produced by our equivalent linear seismic response analysis is presented on Figure C-3.

Table C-4. Input Soil Profile

Depth Interval (feet BGS)	Subsurface Unit	Shear Wave Velocity (feet per second)	Modulus Reduction Curve	Damping Curve
0 to 10	Silt	600	Vucetic and Dobry, 1991	Vucetic and Dobry, 1991
10 to 70	Dense Gravel	950 to 1,200	Gravel (Seed et al. 1986)	Gravel (Seed et al. 1986)
70 to 150[1]	Dense to Very Dense Gravel (Troutdale Formation)	1,300 to 1,800	Gravel (Seed et al. 1986)	Gravel (Seed et al. 1986)

1. Input ground motion applied at base of this layer.

DETERMINISTIC MCE_R RESPONSE SPECTRUM

The deterministic approach considers the maximum ground acceleration that may occur at the site as a result of a characteristic earthquake on all known active faults in the region. ASCE 7-10 Section 21.2.2 requires that the spectral response at each period be calculated as an 84^{th} percentile 5 percent damped spectral response acceleration in the direction of maximum horizontal response. However, the lower limit is computed in accordance with Figure 21.2-1 in ASCE 7-10, where F_a and F_v are determined using Tables 11.4-1 and 11.4-2 in ASCE 7-10. Figure C-4 shows the deterministic lower limit as prescribed by ASCE 7-10 Section 21.2.2.

SITE-SPECIFIC MCE_R RESPONSE SPECTRUM

As outlined in ASCE 7-10 Section 21.2.3, the site-specific MCE_R shall be taken as the lesser of the probabilistic MCE_R and the deterministic MCE_R. Figure C-4 shows the site-specific design response spectrum.

DESIGN RESPONSE SPECTRUM

ASCE 7-10 Section 21.3 states that the site-specific MCE_R response spectrum is reduced to two-thirds of the acceleration at any period. However, the lower bound for design ground motions is 80 percent of the generalized response spectrum as outlined in ASCE 7-10 Section 11.4.5.

DESIGN ACCELERATION PARAMETERS

To develop the final design response spectrum, the lesser of the values obtained from the probabilistic MCE and the deterministic MCE are taken at each period. The parameter S_{DS} is taken from the site-specific response spectrum at a period of 0.2 second but shall not be smaller than 90 percent of the peak spectral acceleration taken at any period larger than 0.2 second. The parameter S_{D1} is taken as the greater of the spectral acceleration at 1 second or two times the acceleration at 2 seconds. Figure C-5 shows the design response spectrum.

GEOLOGIC HAZARDS

In addition to ground shaking, site-specific geologic conditions can influence the potential for earthquake damage. Deep deposits of loose or soft alluvium can amplify ground motions, resulting in increased seismic loads on structures. Other geologic hazards are related to soil failure and permanent ground deformation. Permanent ground deformation could result from liquefaction, lateral spreading, landsliding, and fault rupture. The following sections provide additional discussion regarding potential seismic hazards that could affect the proposed development.

FAULT SURFACE RUPTURE

There are no mapped potentially active faults adjacent to or underlying the site. The nearest fault is mapped at least 2 miles from the site. Therefore, it is our opinion that the risk of fault rupture at the site is low.

LIQUEFACTION

Liquefaction is caused by a rapid increase in pore water pressure that reduces the effective stress between soil particles to near zero. Granular soil, which relies on interparticle friction for strength, is susceptible to liquefaction until the excess pore pressures can dissipate. In general,

loose, saturated sand soil with low silt and clay content is the most susceptible to liquefaction. Silty soil with low plasticity is moderately susceptible to liquefaction under relatively higher levels of ground shaking. The soil encountered during our subsurface exploration is not susceptible to liquefaction under design levels of ground shaking.

LATERAL SPREAD

Lateral spread is a liquefaction-related seismic hazard. Development areas subject to lateral spreading are typically gently sloping or flat sites underlain by liquefiable sediments adjacent to an open face, such as riverbanks. Liquefied soil adjacent to open faces may "flow" in that direction, resulting in surface cracking and lateral displacement towards the open face (i.e., riverbank). The magnitude of lateral spread decreases with distance from the open face. Lateral spreading is evaluated using procedures first developed by Bartlett and Youd and published in 1992. Since the site is not near an open face and has low susceptibility to liquefaction, lateral spreading is expected to be negligible at this site.

GROUND MOTION AMPLIFICATION

Soil capable of significantly amplifying ground motions beyond the levels determined by our site-specific seismic response analysis was not encountered during our subsurface investigation program. The main report provides a detailed description of the subsurface conditions encountered. We conclude the level of amplification determined by our response analysis is appropriate and the facility can be designed using the levels of ground shaking prescribed by the IBC.

LANDSLIDE

Earthquake-induced landsliding generally occurs in steeper slopes comprised of relatively weak soil deposits. The site is relatively flat, with low topographic relief; therefore, landslides do not present a risk at the site.

SETTLEMENT

Settlement due to earthquakes is most prevalent in relatively deep deposits of dry, clean sand. We do not anticipate that significant settlement in addition to liquefaction-induced settlement will occur during design levels of ground shaking.

SUBSIDENCE/UPLIFT

Subduction zone earthquakes can cause vertical tectonic movements. The movements reflect coseismic strain release accumulation associated with interplate coupling in the subduction zone. Based on our review of the literature, the locked zone of the CSZ is located in excess of 60 miles from the site. Consequently, we do not anticipate that subsidence or uplift is a significant design concern.

LURCHING

Lurching is a phenomenon generally associated with very high levels of ground shaking, which cause localized failures and distortion of the soil. The anticipated ground accelerations shown on Figure C-3 are below the threshold required to induce lurching of the site soil.

SEICHE AND TSUNAMI

The site is inland and elevated away from tsunami inundation zones and away from large bodies of water that may develop seiches. Seiches and tsunamis are not considered a hazard in the site vicinity.

LIMITATIONS

We have prepared this seismic hazard study for use by the design and construction team for the proposed Fairview Elementary School. The conclusions presented in this report are based on the data available at the time this report was written.

Our seismic hazard study report, conclusions, and interpretations should not be construed as a warranty of subsurface conditions and earthquake ground motions. We have interpreted subsurface conditions based on our exploration and review of available geologic information. The design earthquakes and base rock accelerations referred to are based on review of available data, literature, and our previous experience.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted practices in this area at the time the report was prepared. No warranty or other conditions, express or implied, should be understood.

REFERENCES

ASCE/SEI 7-10; Minimum Design Loads for Buildings and Other Structures, Third Printing , incorporating errata, Supplement 1, and expanded commentary, 2013. ISBN 978-0-7844-7785-4

Blakely, R.J., Madin, I.P., Stephenson, W.J., and Popowski, T., 2001, The Canby-Molalla fault, Oregon: Eos, Transactions of the American Geophysical Union, Abstract S22D-01, v. 82, no. 47, supplement.

Geomatrix, 1995, "Seismic Design Mapping, State of Oregon," prepared for Oregon Department of Transportation.

NGDC, 2010, Earthquake Intensity Database, National Geophysical Data Center, NOAA, http://www.ngdc.noaa.gov/cgi-bin/hazard/util/ffq_result.pl, December, 2010.

Personius, S.F., compiler, 2002, Fault number 870, Owl Creek fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, http://earthquakes.usgs.gov/regional/qfaults, accessed 06/13/2008 12:41 PM.

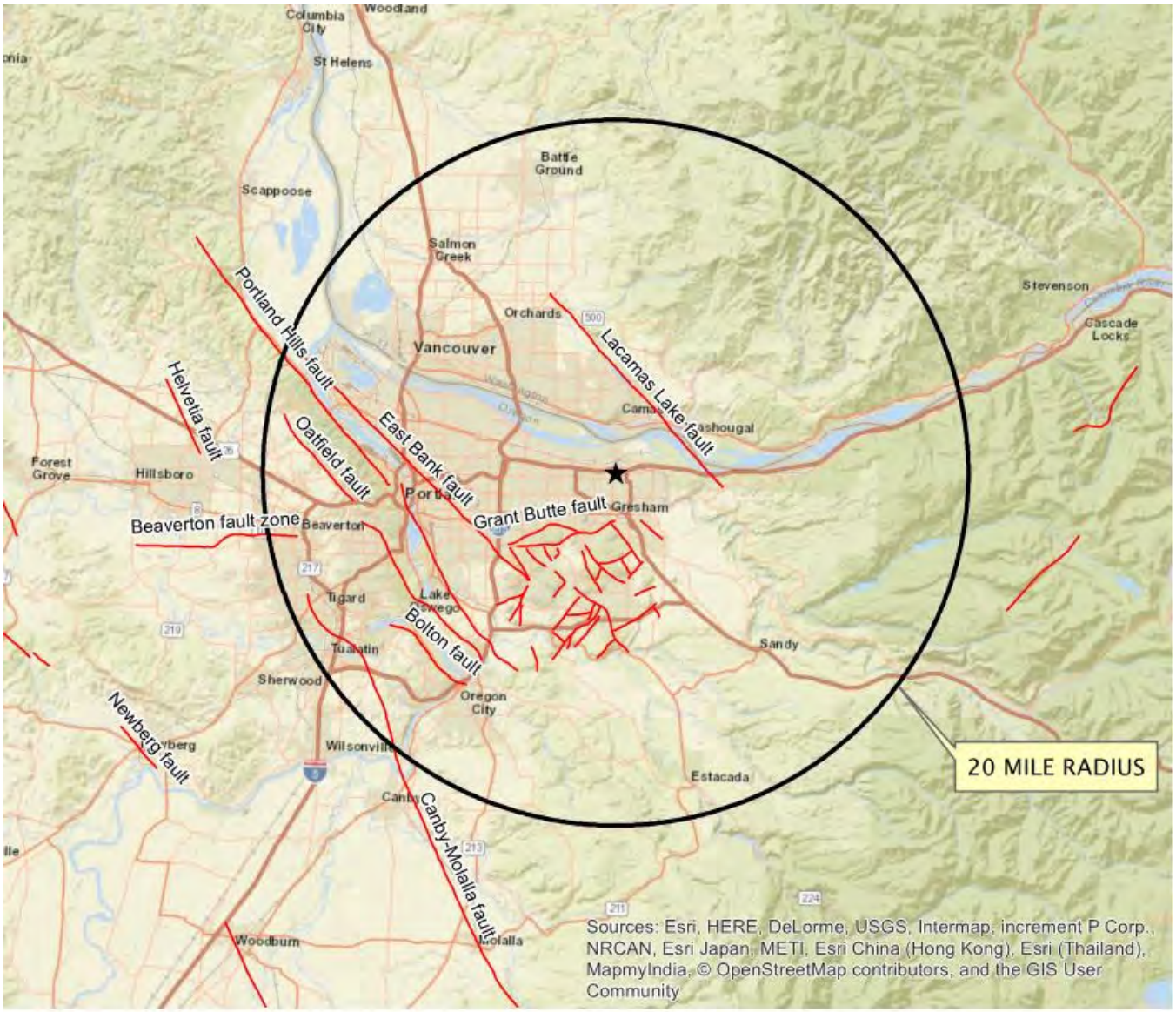
PNSN, 2014, Historic Earthquake Database, Pacific Northwest Seismic Network, University of Washington, http://www.pnsn.org, December, 2014.

State of Oregon 2014 Structural Specialty Code.

USGS, 2010, Earthquake Hazards Program, *Quaternary Fault and Fold Database of the United States*, http://earthquake.usgs.gov/hazards/qfaults/, December, 2010.

USGS, 2014, Earthquake Hazards Program, *US Earthquake Information by State*, U. S. Geological Survey, Available: http://earthquake.usgs.gov/earthquakes/search, December, 2014.

Weaver, C.S. and Shedlock, K.M, 1991, Program for earthquake hazards assessment in the Pacific Northwest: U.S. Geological Survey Circular 1067, 29 pgs.



LEGEND

★ SITE LOCATION

QUATERNARY FAULTS

N

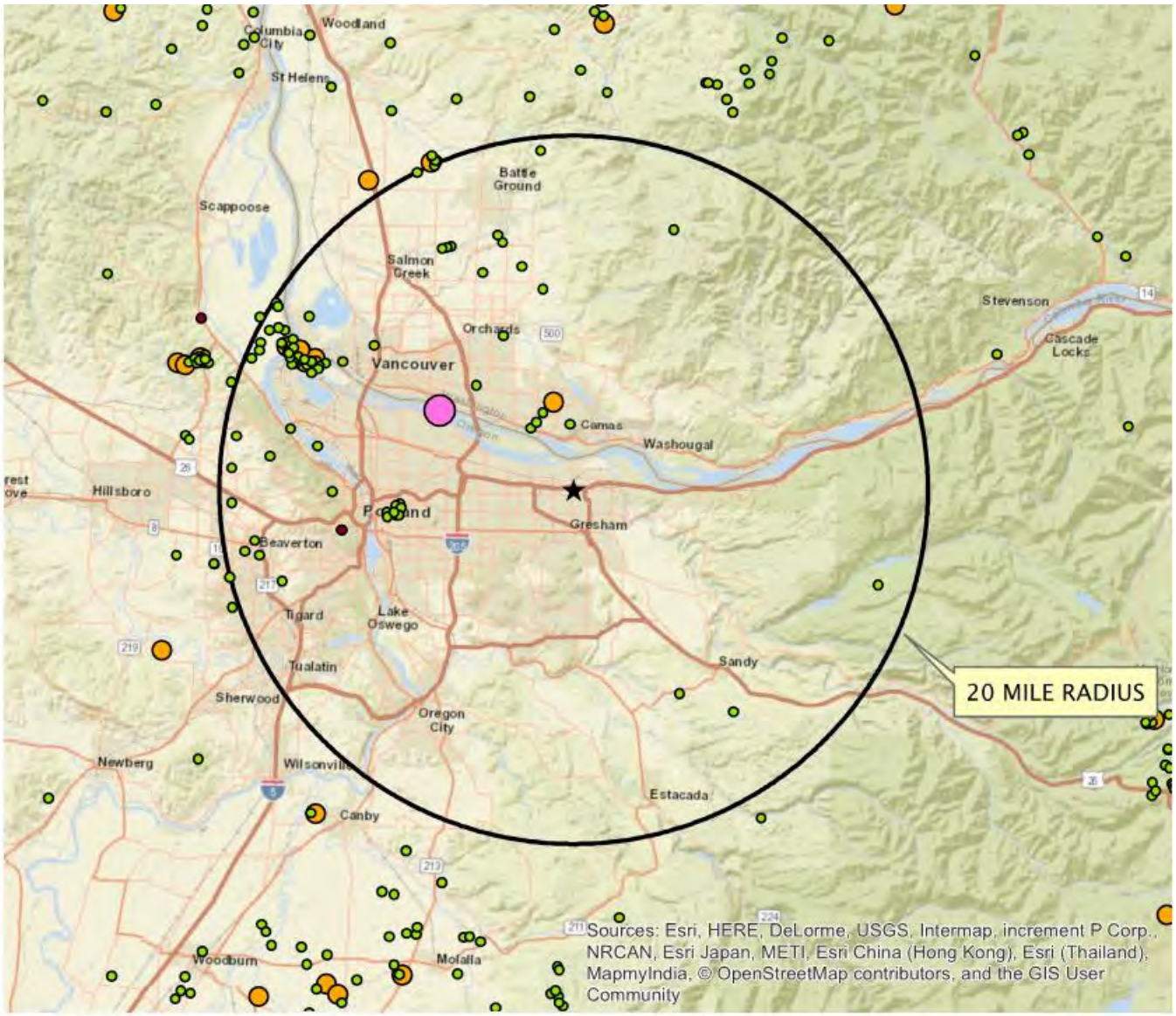
0 5 10

Miles

QUATERNARY FAULT DATA FROM USGS (2010)

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-2-01	**QUATERNARY FAULT MAP**	
MAY 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR	**FIGURE C-1**



LEGEND

★ SITE LOCATION

INSTRUMENTAL EARTHQUAKE MAGNITUDE

- 2.0 - 3.0
- 3.0 - 4.0
- 4.0 - 6.0
- > 6.0

MAXIMUM MODIFIED MERCALLI INTENSITY

MMI

- VI
- VII
- VIII

N

0 5 10

Miles

HISTORICAL MMI DATA FROM NGDC (2010)
INSTRUMENTAL MAGNITUDES FROM USGS (2014), PNSN (2014)

GEODESIGN INC
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Portland OR 97224
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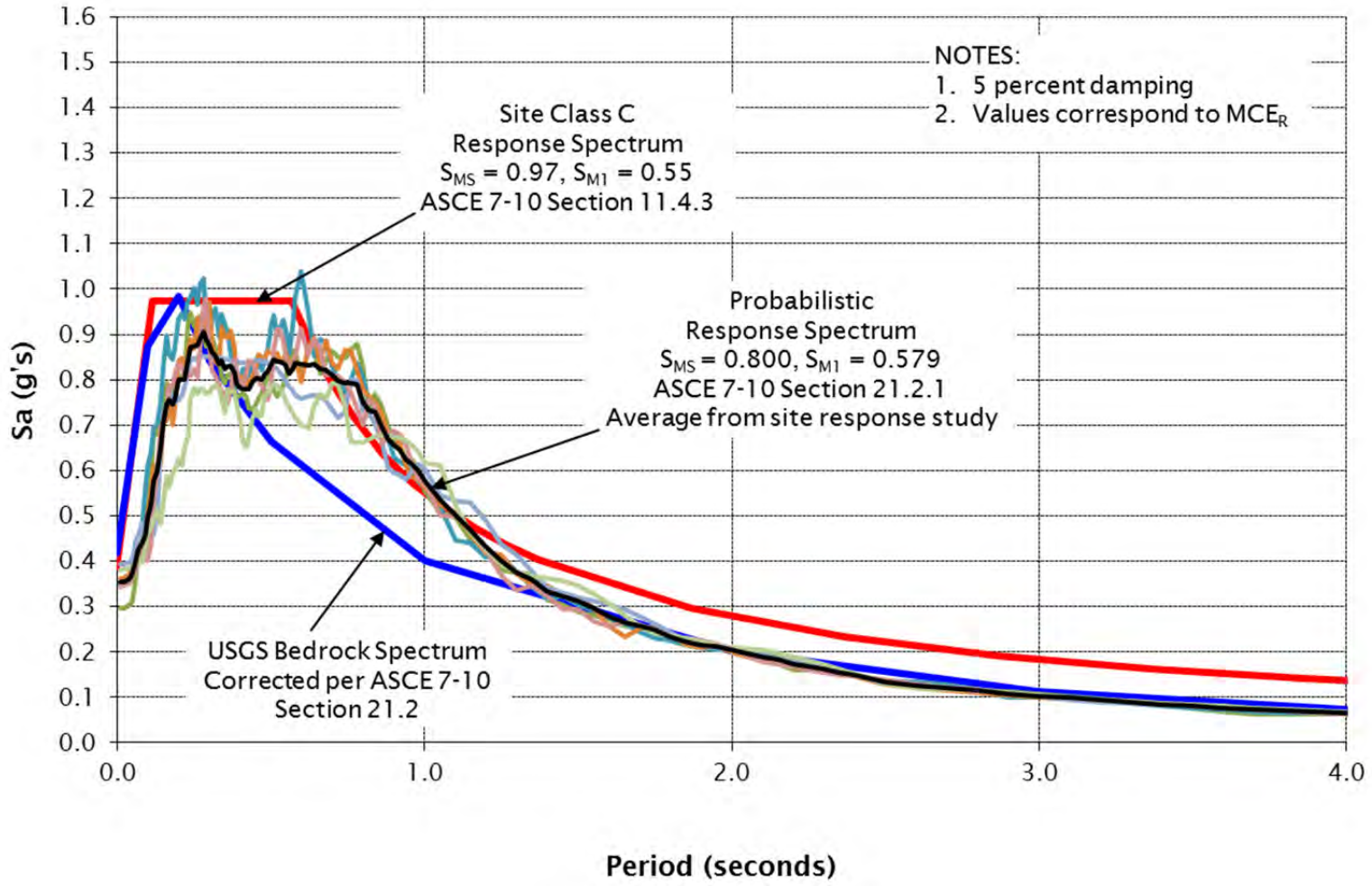
REYNOLDSSD-2-01	**HISTORICAL SEISMICITY MAP**	
MAY 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR	**FIGURE C-2**



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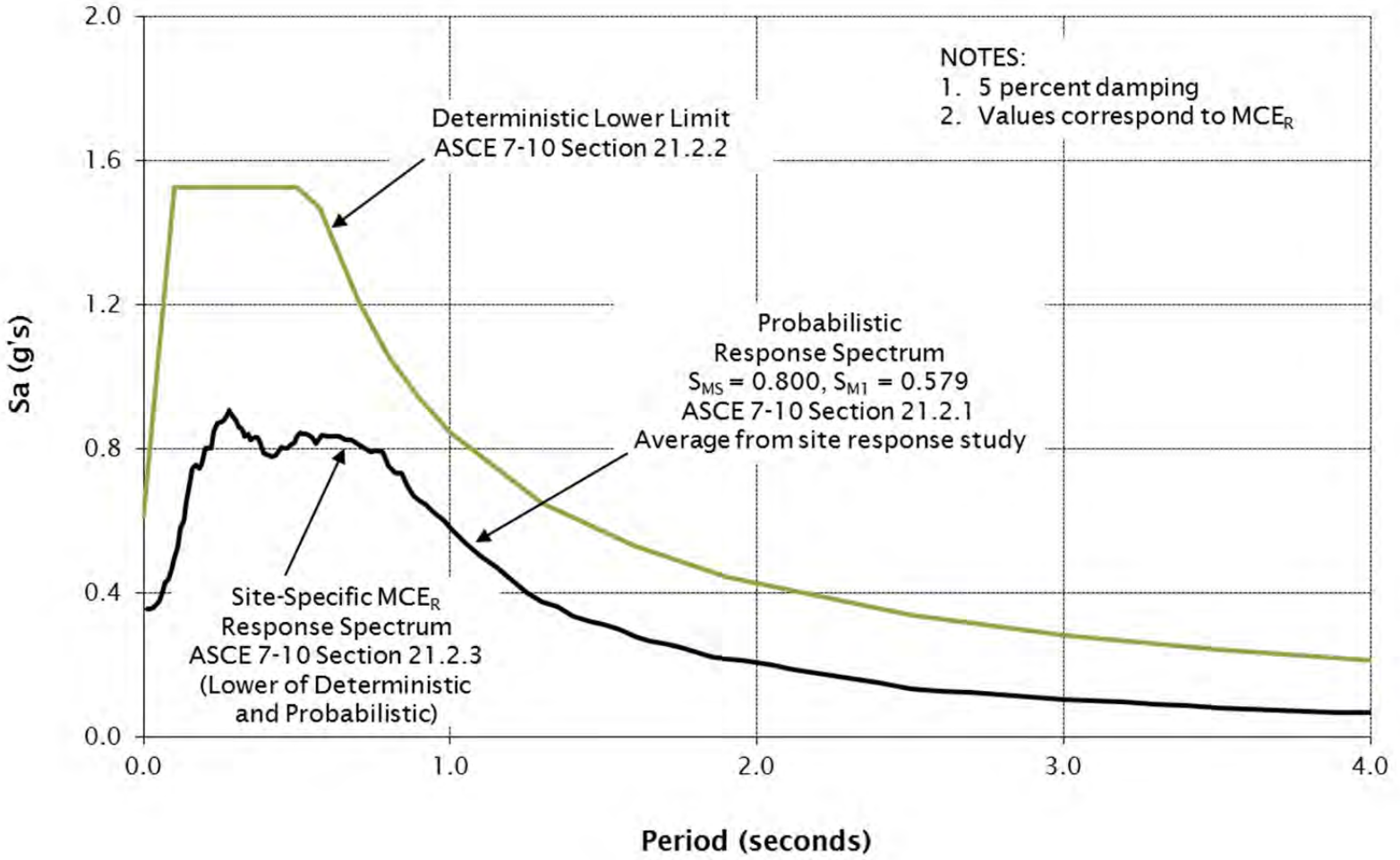
REYNOLDSSD-2-01	**SITE RESPONSE SPECTRA**	
MAY 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR	**FIGURE C-3**



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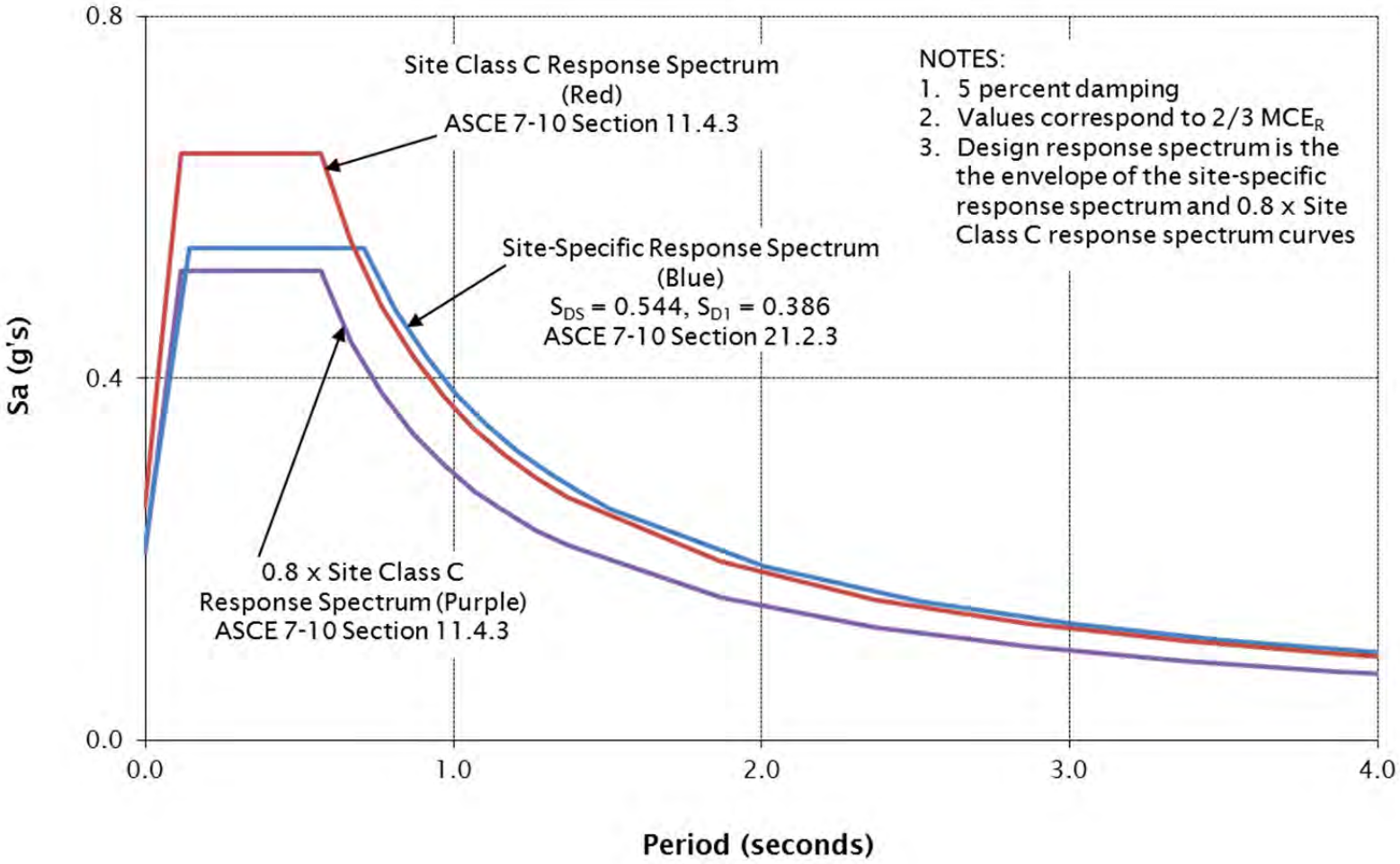
REYNOLDSSD-2-01	**SITE-SPECIFIC RESPONSE SPECTRA**	
MAY 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR	**FIGURE C-4**



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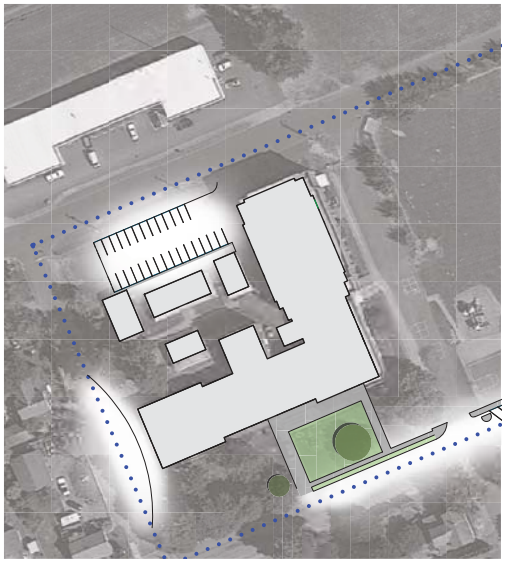
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-2-01	**DESIGN RESPONSE SPECTRUM**	
MAY 2016	FAIRVIEW ELEMENTARY SCHOOL FAIRVIEW, OR	**FIGURE C-5**

APPENDIX D

2.09 FAIRVIEW ELEMENTARY



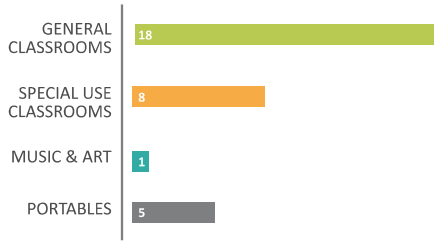
09 225 MAIN STREET
FAIRVIEW, OR 97024

FACILITY SUMMARY

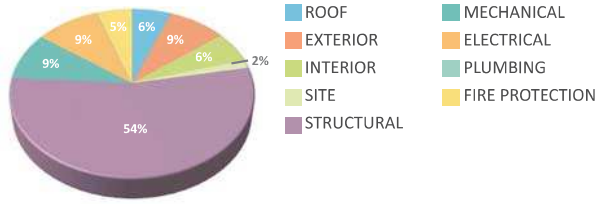
First built in 1926 as a 4 classroom school house, Fairview Elementary School is currently the 2nd oldest school in the Reynold's school district and now provides classes for over 400 students in kindergarten through fifth grade. The school reaches out to help others by hosting a canned food drive and raise money for the Fun Run. Fairview serves both the Blue Lake and Fairview Oak Woods communities. The mission of the school is to provide a quality education in an environment where there is respect and appreciation for everyone. They do this so that children feel confident, motivated to learn, and willing to accept academic challenges, thus preparing them to become lifelong learners. Fairview has a pre-K playground area and 4 portable buildings holding additional education program space. A few compact city parks nearby include: Handy/Nechocokee, Park Cleone, and Marilyn's City Park.

CITY	Fairview
YEAR BUILT ADDITIONS	1926 1953/62/68/84+
BUILDING AREA	63,066 sf
SITE AREA	4.77 acres
STUDENT POPULATION	408
PRIMARY STRUCTURE	Wood & Conc. Shear Walls
ROOF TYPE	Built-up

ROOM TYPE DISTRIBUTION



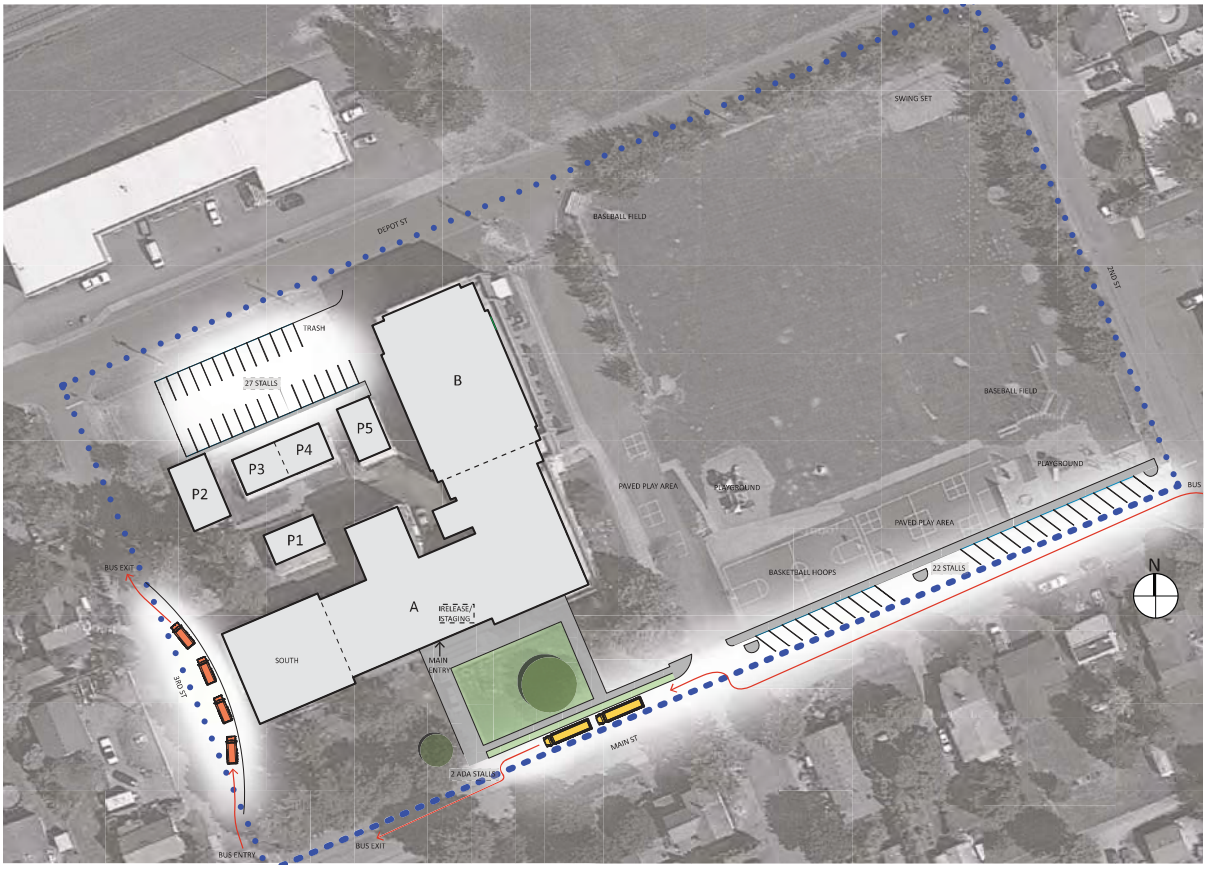
FACILITY REPAIR COST ALLOCATION



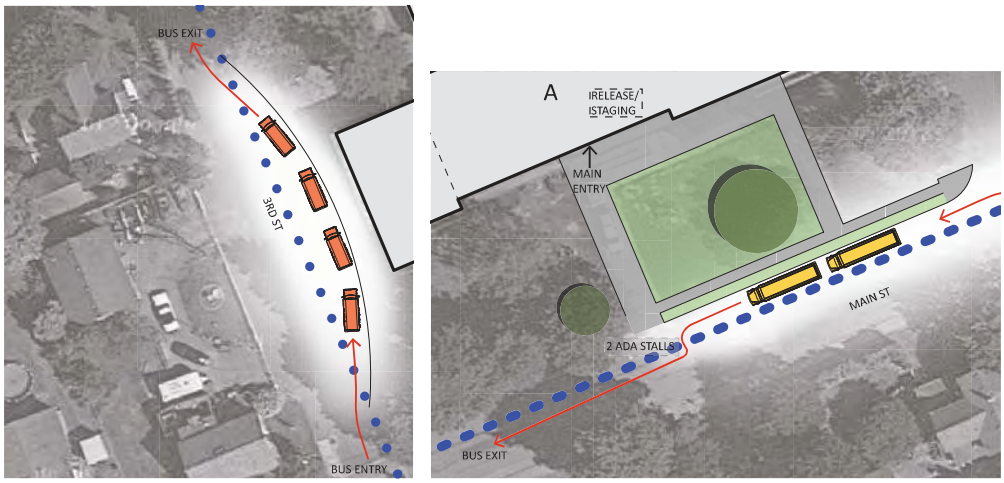
FACILITY CONDITION INDEX

2.09 FAIRVIEW ELEMENTARY

TRANSPORTATION ASSESSMENT



SITE PLAN
NOT TO SCALE

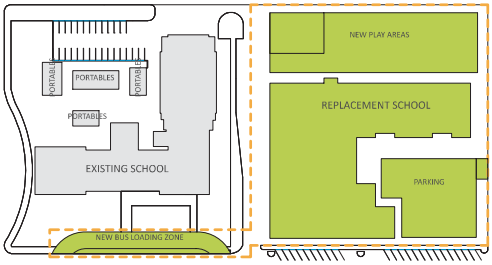


BUS AREA PLANS
NOT TO SCALE

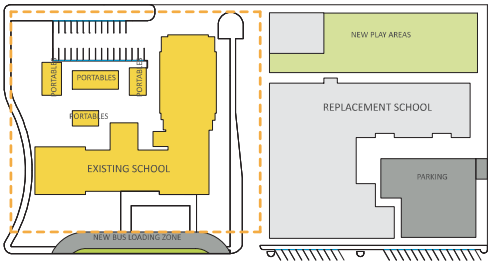
2.09 FAIRVIEW ELEMENTARY

FACILITY REPLACEMENT PHASING PLAN

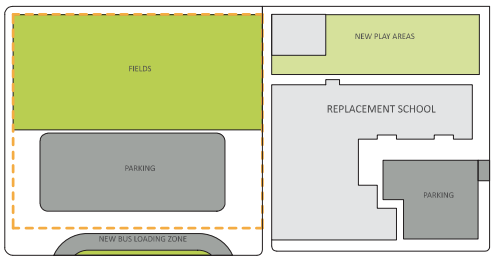
PHASE 1: CONSTRUCT REPLACEMENT SCHOOL



PHASE 2: DEMOLISH EXISTING SCHOOL



PHASE 3: RE-WORK SITE, PARKING AND FIELDS



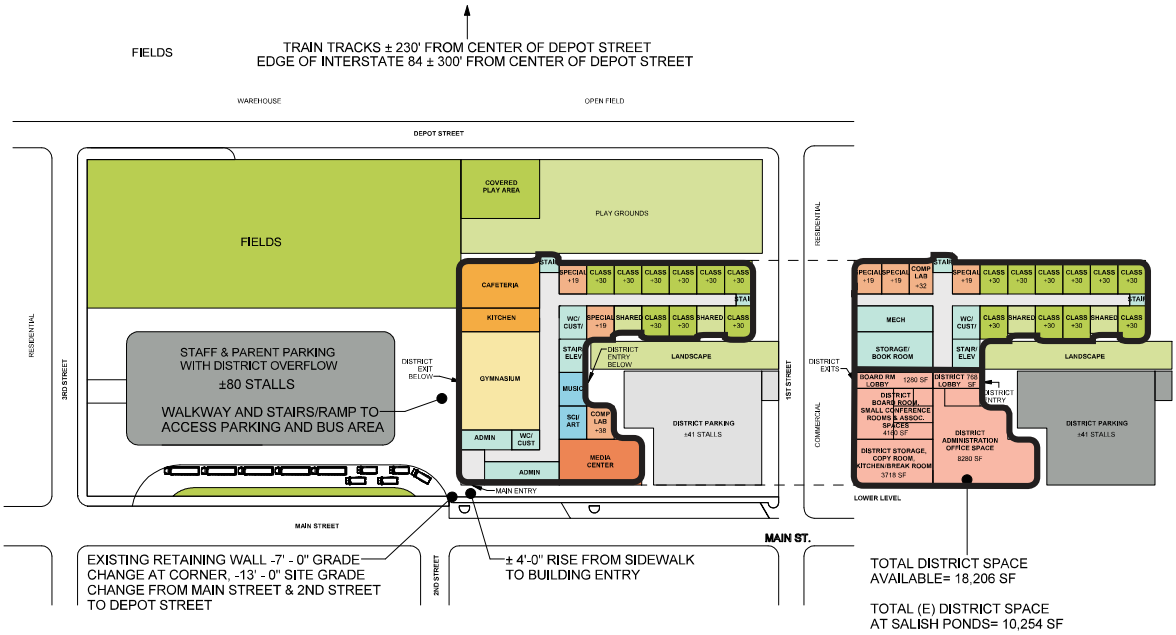
LEGEND

- NEW CONSTRUCTION
- RENOVATION OF EXISTING
- DEMOLITION
- BUS PATH OF TRAVEL
- PARENT PATH OF TRAVEL

SITE PLAN
NOT TO SCALE

2.09 FAIRVIEW ELEMENTARY

SITE DEVELOPMENT CONCEPT PLAN



FIRST FLOOR PLAN
NOT TO SCALE

BUS SUMMARY

CURRENT ENROLLMENT: 408
CURRENT BUS COUNT: 2 large
4 small

PROPOSED CAPACITY: 570
PROPOSED BUS COUNT: 6 large
4 small

LARGE: MAXIMUM 70 ELEMENTARY STUDENTS/BUS
SMALL: MAXIMUM 45 ELEMENTARY STUDENTS/BUS

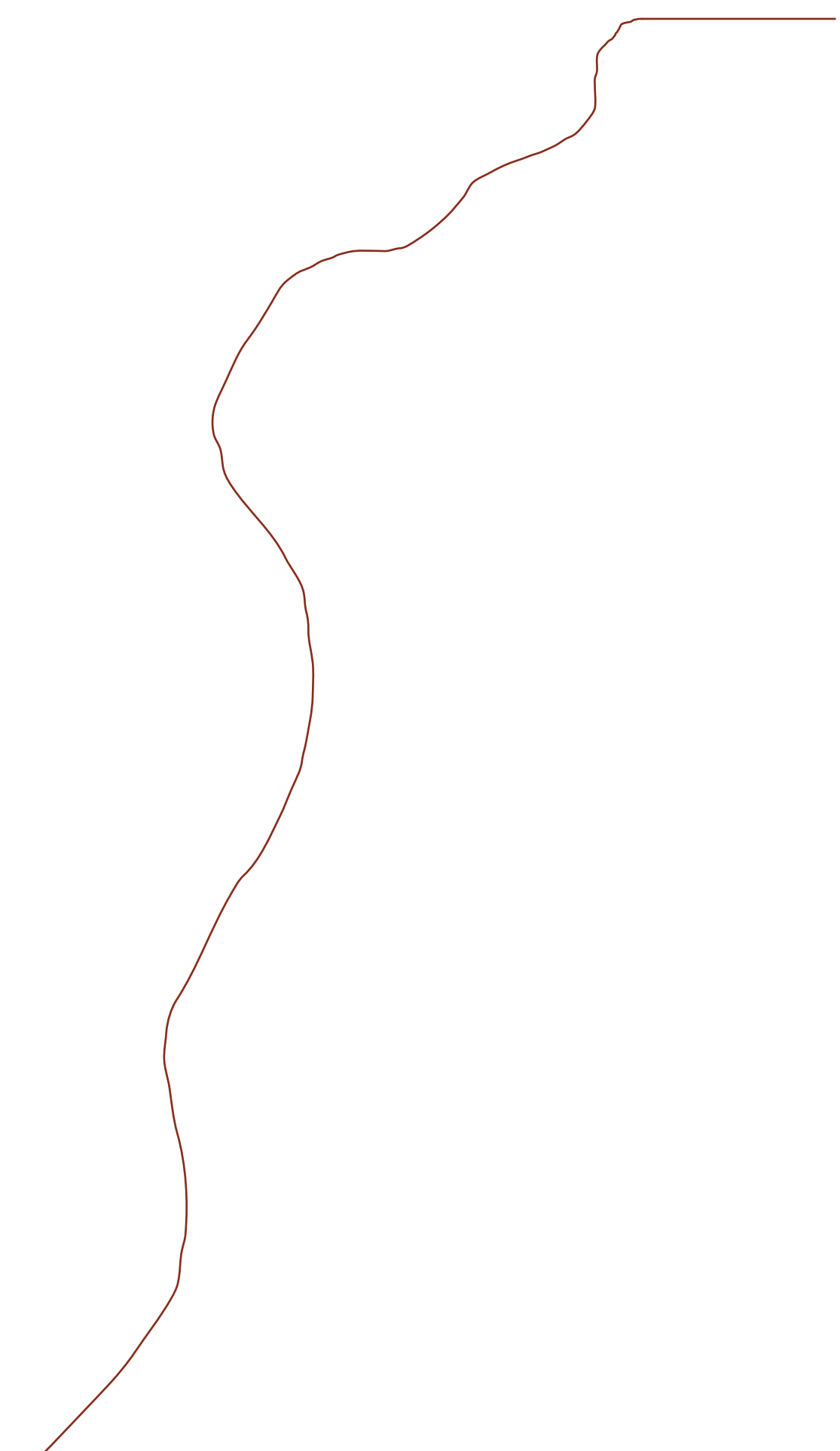
2013-2014 Enrollment: **408**

	EXISTING	PROPOSED
Building Area (sf):	63,066	73,902
Programmed Capacity:	515	570
Gross Area Per Student:	122.5 SF	129.7 SF
Full day kindergarten:	NO	YES
General Classrooms:	18	19
Special Use Classrooms:	5	5
Computer labs:	2	2
Music & Science/Art:	1	2
Portables:	5	0
Cafeteria Area (sf):	2170	4050
Cafeteria Capacity:	144	270

ACRONYMS AND ABBREVIATIONS

ACRONYMS

AASHTO	American Association of State Highway and Transportation Officials
AC	asphalt concrete
ACP	asphalt concrete pavement
ASCE	American Society of Civil Engineers
ASTM	American Society for Testing and Materials
BGS	below ground surface
CSZ	Cascadia Subduction Zone
ESA	Environmental Site Assessment
ESAL	equivalent single-axle load
FHWA	Federal Highway Administration
g	gravitational acceleration (32.2 feet/second^2)
H:V	horizontal to vertical
IBC	International Building Code
km	kilometers
MCE	maximum considered earthquake
MCE_R	risk-targeted maximum considered earthquake
OSHA	Occupational Safety and Health Administration
OSSC	Oregon Standard Specifications for Construction (2015)
OWRD	Oregon Water Resources Department
pcf	pounds per cubic foot
PG	performance grade
PGA	peak ground acceleration
psf	pounds per square foot
psi	pounds per square inch
SOSSC	State of Oregon Structural Specialty Code
SPT	standard penetration test
SRM	Sandy River Mudstone
UIC	underground injection control
USGS	U.S. Geological Survey
UST	underground storage tank



PBS | Engineering + Environmental

Pre-Demolition Hazardous Building Materials Survey Report

Fairview Elementary School
225 Main Street
Fairview, OR 97024

Prepared for:

Reynolds School District No. 7

March 2016
Project No.: 23881.001

4412 SW Corbett Avenue, Portland, OR 97239
503.248.1939 Main
866.727.0140 Fax
888.248.1939 Toll-Free

www.pbsenv.com

GENERAL INFORMATION

BUILDING DATA

Fairview Elementary School
225 Main Street
Fairview, OR 97024

CLIENT DATA

Reynolds School District No. 7
1204 NE 201st Ave.
Fairview, OR 97024-9642

SURVEY SCOPE

PBS Engineering and Environmental Inc. (PBS) has performed a pre-demolition hazardous materials survey of accessible building areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Suspect polychlorinated biphenyl (PCB) light ballast inspection
- Inspection summary
- Floor plan diagrams indicating material and sample locations
- Laboratory analytical data of bulk material sampled

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials in the building; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling or floor spaces. If suspect materials that are not identified in this report are uncovered during demolition or renovation activities, testing should be performed prior to impact.PBS has conducted a physical inspection of the building, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Rich Dufresne
Project Manager
Accreditation # IMR-16-0264A

3/2/2016

Signature Date

Chris Boyce
Prime Inspector
Accreditation # IMR-16-4464A

3/2/2016

Signature Date

INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
12/31/2015	Chris Boyce	Inspect and Sample
12/30/2015	Steve Dilling	Inspect and Sample

PBS has investigated accessible areas inside of the building(s) to locate suspect asbestos-containing materials (ACM). Suspect materials may be present in concealed areas (e.g., behind walls and under carpet). The findings are listed below.

ASBESTOS MATERIALS

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.
(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

Result	Material (type)	Location	Approx. Quantity
(T)	Asbestos Pipe Insulation/Hard Fittings	Various locations throughout the building (exposed, in crawlspaces, above drop ceilings, and in wall cavities)	1,825 LF
(T)	Hard Fittings/Fiberglass	Various locations throughout the building (exposed, in crawlspaces, above drop ceilings, and in wall cavities)	115 EA
(P)	Boiler Insulation	Boiler Room, Two Boilers	360 SF
(P)	Tank Insulation	Boiler Room, Tank	110 SF
(+)	Vinyl Floor Tile/Mastic	Multiple layers of floor tile and mastic throughout; in some areas concealed below cabinetry, carpet, wood underlayment, and/or multiple layers of non-asbestos flooring.	19,650 SF
(+)	Sheet Floor Covering, gray sandy pattern	West addition, lower level, room 22A	130 SF
(+)	Sheet Floor Covering, yellow pebble pattern on countertop	Main building, lower level, storage room	10 SF
(P)	Cement Asbestos Board	Main building, lower level storage room, crawlspace doors	32 SF
(+)	Asphalt Impregnated Paper below wood underlayment	West addition, main floor hallway	650 SF

INSPECTION SUMMARY

(+)	Residual Mastic	Gym building, main floor foyer, residual black mastic below newer non-asbestos tile and wood underlayment	1,000 SF
(+)	Carpet Mastic	West addition, main floor, rooms 7 & 9	1,700 SF
(+)	Gypsum Wallboard/Joint Compound	Walls and ceilings in in various locations throughout	NOT QUANTIFIED
(+)	Roofing Debris	Above ceilings throughout	15,000 SF
(P)	Chalkboard	Classroom 20	32 SF
(+)	Sink Undercoating	Media center and classroom 15	2 EA
(+)	Caulk	Glass block sidelight at southeast entrance and glass block above east and west gym doorways	70 LF
(T)	Fireproof Projection Room	Fire door, shutters, walls and ceilings of projection room above entry foyer	250 SF
(+)	Textured Ceiling Material (<1%)	Gym building north stairwells	300 SF
(+)	Covebase/Mastic (<1%)	West addition, main floor, rooms 7 & 9	320 LF
(+)	Gypsum Wallboard/Joint Compound (<1%)	Walls and ceilings in gym building	NOT QUANTIFIED
(+)	Glue dots associated with glued-on ceiling tiles (<1%)	Various locations throughout the lower and main levels (in some areas concealed above new drop ceilings)	16,000 SF
(M)	Window Glazing Compound (<1%)	Interior and exterior glazing throughout (units of various sizes)	112 EA

INSPECTION SUMMARY

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

Material (type)	Location
Asphalt Impregnated Paper, old exterior vapor barrier	Main building; main hall, above ceiling outside girls' restroom
Asphalt Impregnated Paper, below wood underlayment	West addition; main floor, Rooms 8 & 10
Batt Insulation, fibrous brown	Main Building; main office, stud bays above ceiling
Carpet Mastic, brown	Gym building; music room
Ceramic Tile/Grout	Main floor student restrooms
Ceramic Tile/Grout	Gym Building; lower level, west locker room
Concealed Grid Ceiling Tile	Main building; main floor, room 16
Covebase/Mastic	Various locations throughout (See drawings for location of asbestos-containing occurrences of this material)
Gypsum Wallboard/Joint Compound	Various locations throughout (See drawings for location of asbestos-containing occurrences of this material)
Hard Fittings/Fiberglass	West addition, lower level halls and classrooms
Hard Fittings/Fiberglass	Main building; main hall staff & student restrooms in plumbing walls
Lay-in Ceiling Tile	Throughout
Mastic (brown/orange residual below carpet tiles)	West addition, lower level classrooms
Mastic, gold on firtex pinboards	Gym building; lower level, room 26
Mastic, tan on pin boards	Main building; media center
Mastic, tan on sound attenuation panels	Gym building; music room
Mechanical Isolation Cloth	Gym building; lower level, mechanical room
Mortar	Southeast entry, glass blocks
Paint	Main building; lower level teacher's lounge & room 27
Paper Felt	Gym building; storage above music room office, ceiling
Sheet Floor Covering	Various locations throughout (See drawings for location of asbestos-containing occurrences of this material)

INSPECTION SUMMARY

Sink Undercoating	Lower level teachers lounge and Main office work room
Stair skirting	Gym Building; foyer stairs
Stucco	Gym building, lower level foyer
Stucco	Main building, exterior, main entrance
Textured Ceiling Material	Main building; main office
Vinyl Floor Tile/Mastic	Various locations throughout (See drawings for location of asbestos-containing occurrences of this material)
Wall and Ceiling Plaster	Throughout
Wallpaper	Main building; lower level teacher's lounge
Wallpaper, textured blue	West wing classrooms and hallway

INSPECTION SUMMARY

BACKGROUND

In December, 2015, PBS performed a pre-demolition hazardous building materials survey of Fairview Elementary School located at 225 Main Street in Troutdale, Oregon.

The purpose of the survey was to identify asbestos-containing building materials, lead paint, mercury-containing products and other regulated materials that may be impacted by the planned demolition of the structures at the site.

This survey is compiled to satisfy the requirements to perform an asbestos inspection prior to any renovation or demolition activities under OAR 340-248-0270 and OSHA hazard communication requirements. This survey is not intended to serve as an abatement specification or bidding document.

Every attempt to access suspect asbestos-containing building materials was made during this survey. Additional destructive sampling may need to occur to access hidden or inaccessible materials when the school building is no longer occupied. If concealed materials are uncovered during demolition activities that are not identified in this report, stop work and contact PBS for additional investigation.

INSPECTION SUMMARY

Bulk samples of suspect asbestos-containing materials (ACM) were collected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector and submitted under chain-of-custody to Lab/Cor, Inc. of Portland, Oregon, for polarized light microscopy (PLM) analysis.

The materials noted below either tested positive for asbestos or, based on historical sampling and the experience of PBS field personnel, were not tested and are to be considered asbestos-containing. Materials that had mixed results are considered positive. If suspect materials, which are not identified in this report, are uncovered during construction activities, these uncovered materials should be tested to verify asbestos content prior to impact.

Asbestos-containing Thermal Systems Insulation (TSI)

Asbestos-containing TSI is present throughout the school.

- In the boiler room, the two boilers and associated hot water tank are insulated with asbestos-containing mag block insulation.

- Also located in the boiler room, asbestos-containing pipe insulating is present on the piping. The pipe insulation in the boiler room consists of pipe diameters from 4” up to 12” and includes straight runs, hard fittings, valves clusters, and the 12” diameter headers.

- Asbestos-containing pipe insulation is located in the crawlspace under the main building, above the ceilings throughout the lower level of the main building, exposed in the lower level restrooms, storage areas, and book room, above the ceilings throughout the lower level of the gym building, concealed in the wet walls of the gym building showers, and exposed in the gym building dressing rooms, storage areas, and mechanical rooms.

- The distribution piping for the main floor of the school is fed from below, therefore asbestos-containing pipe insulation may exist at floor penetrations from the lower level.

- Asbestos-containing hard fittings are present on fiberglass insulated pipes throughout the crawlspace under the main building, above the ceilings throughout the lower level of the main building, above the ceilings throughout the lower level of the gym building, and exposed in the gym dressing rooms, storage areas, and mechanical rooms.

- The distribution piping located throughout the lower level west addition has been replaced and is insulated with fiberglass and non-asbestos hard fittings. Abandoned asbestos-containing pipe insulation may remain in inaccessible chases and interstitial spaces of the west addition.

Asbestos-Containing Flooring

A variety of floor coverings exists throughout the school. Asbestos-containing flooring and mastics have been overlaid with non-asbestos carpet, flooring, or wood underlayment in many locations throughout the school. Given the variety of flooring types and layers, for clarity, we have combined flooring types and layers in this report to identify locations that contain asbestos-containing floor coverings.Please refer to the associated survey drawings for more detailed layering information.

INSPECTION SUMMARY

- Asbestos-containing vinyl floor tile and associated mastic is present throughout most of the main building, the main floor and lower level gym foyer, lower level classrooms of the gym building, and several areas on both levels of the west addition. As mentioned above various layers of asbestos-containing flooring and mastics have been overlaid with non-asbestos flooring, carpet, and underlayments in many locations.

Floor coverings located on the main level of the school are applied over wood substrate while those on the lower levels are applied to a concrete substrate.

Asbestos-Containing Roofing and Debris

Asbestos-containing roofing debris is present throughout the building attic spaces. The asbestos-containing roofing debris is evidence that a prior roof tear-off project has occurred. It is unknown if all of the asbestos-containing roofing was properly removed during the roof tear off.

- The attic space throughout the building should be considered contaminated with asbestos-containing debris.

- The existing roofing material was not sampled at the time of this survey in order to maintain the integrity of the roofing membrane. All roofing materials shall be presumed asbestos-containing for the purpose of this survey.

Asbestos-Containing Miscellaneous Materials

In addition to the asbestos-containing TSI, flooring materials, and roofing debris discussed above other miscellaneuos asbestos-containing materials include the following:

- Asbestos-containing sheet flooring applied on the countertop in the lower level south storage room.
- Asbestos-containing cement asbestos board on the back of crawlspace access doors in the south storage room.
- Asbestos-containing joint compound on gypsum wallboard in the west wing lower level classrooms, the boiler room storage/work room ceiling, and storage rooms in the old boys' and girls' dressing rooms.
- Presumed asbestos-containing chalkboard is present in classroom 20.
- Asbestos-containing sink undercoating is present in the media center and in classroom 15.
- Asbestos-containing metal clad millboard on the doors, shutters, and walls and ceiling in the projection room.
- Asbestos-containing caulk on the glass block sidelight at the southeast entrance, and above doors on the gym east and west entrances.

INSPECTION SUMMARY

<1% asbestos Materials

Materials containing less than one percent asbestos do not meet the definition of asbestos-containing materials requiring abatement by a licensed asbestos abatement contractor; however, Oregon OSHA does have certain training and handing requirements for individuals impacting these materials.

- The joint compound on gypsum wallboard sampled in the gym building's lower level and upper level music room and offices tested at less than one percent (<1%) asbestos.
- Window glazing compound on the interior and exterior of windows throughout the building tested at less than one percent (<1%) asbestos.
- Cove base mastic in classrooms 7 and 9 tested at less than one percent (<1%) asbestos.
- Glue dots associated with 1-foot by 1-foot glue on ceiling tiles throughout the building tested at less than one percent (<1%) asbestos.
- Textured ceiling material in the gym building north stairwells tested at less than one percent (<1%) asbestos.

Reference the hazardous materials survey drawings for location and description of asbestos-containing materials and the asbestos bulk sample inventories for additional information.

Asbestos Regulatory Issues

The State of Oregon Department of Environmental Quality (DEQ) and Environmental Protection Agency (EPA) regulations require proper removal and handling of asbestos-containing materials by licensed and certified asbestos abatement contractors prior to the renovation or demolition of buildings. In addition, the Oregon OSHA has specific requirements when workers may encounter or disturb ACM or when ACM is removed.

In 1994, Oregon-OSHA adopted federal regulations governing asbestos, (29 CFR Part 1926, 1101), OSHA requires building owners to perform “due diligence” in identifying and communicating information about installed building materials in order to prevent workers from unknowingly or improperly disturbing asbestos-containing materials (ACM) or presumed asbestos containing materials (PACM). Hazard communication, training, personal protection, work practices, exposure monitoring and recordkeeping are all major components of the regulation.

Documents of reference for the removal of asbestos-containing materials include:

1. Oregon Occupational Safety and Health Administration (OAR-437, 1926.1101 asbestos)
2. Department of Environmental Quality (OAR-340, Division 248)

INSPECTION SUMMARY

LEAD-BASED PAINT

INSPECTION SUMMARY

Paint-chip samples were collected from representative interior and exterior painted building components of Fairview Elementary School. The samples were submitted under chain of custody to The R.J. Lee Group, for analysis of lead content via flame atomic absorption (FLAA). The sampled surfaces were representative of painted building and/or architectural components located in the conference room and restroom.

Laboratory analysis of these samples produced results ranging from < 88 to 210,000 parts per million (ppm).

Please refer to the "Lead Sample Inventory" for specific samples locations and sample analyses.

Lead-Based Paint Regulatory Issue

The consumer product safety commission limit for lead in consumer paint products is 0.000009 percent or 90 parts per million (ppm) or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains 0.5 percent or 5,000 ppm. Under OSHA, any concentration of lead in paint that may become airborne during construction work operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint.

Oregon OSHA adopted the federal OSHA Lead in Construction Standard (29 CFR 1926.62) in November 1993 under Oregon Administrative Rule (OAR) 437 Division 3 1926.62. The OR-OSHA standard outlines worker exposure limits, personal protection requirements and employer responsibility for exposure assessment, training, housekeeping, and recordkeeping. OSHA’s lead standard applies to all work where employees may be exposed to lead in construction, alteration or repair activities. This includes demolition and/or renovation of structures where lead-containing materials are present.

In April 2010, The Environmental Protection Agency (EPA) enacted 40 CFR Part 745.82 Lead Renovation, Repair and Painting Program. These regulations apply when:

- Renovation, repair, and painting accrue in schools and child-occupied facilities built before 1978
- Children under 6 years of age occupy a building or part of a building for more than 6 hours a week
- Renovation, repair and painting activities disturb lead-based paint (concentrations above 5,000 ppm)

The purpose of the program is to ensure:

- Owners and occupants receive information on lead-based paint hazards before renovation begins
- Renovators and firms performing renovations are trained and certified
- Lead safe work practices are followed

Reference the enacted regulations for additional requirements.

INSPECTION SUMMARY

Disposal of building demolition waste (architectural components from residential buildings) coated with lead-based paint will generally not require a hazardous waste determination (i.e., TCLP testing). Demolition debris with high concentrations of lead paint will require a hazardous waste determination. Typical demolition debris may be disposed of at a solid waste landfill that is permitted by the DEQ and which meets the current design standards for municipal solid waste disposal facilities of 40 CFR, Part 258.

Refer to the DEQ Hazardous Waste Reduction Policy and follow all requirements under the Oregon DEQ, Management of Building Demolition Waste, 97-PO-002A for proper disposal of lead-based painted demolition waste.

PCB/MERCURY VAPOR TUBES

POLYCHLORINATED BIPHENYLS (PCB) / MERCURY VAPOR TUBES (MVT)

No representative light fixtures inspected contained PCB ballasts. All light fixtures should be inspected prior to renovation/demolition. If there is visual evidence that the ballast is PCB-containing or suspicion of a PCB leak or spill, a qualified contractor shall handle and dispose of PCB-containing light ballasts and contaminated fixtures in accordance with all applicable federal, state, and local regulations.

Approximately 1,250 mercury vapor fluorescent light tubes were inventoried in all buildings. Mercury vapor tubes should be carefully handled, packaged, and recycled in appropriate manner.

PCB and Mercury Vapor Tube Regulatory Issues

Please refer to the following documents for requirements for removal and disposal of PCB-containing light ballasts and mercury-containing light tubes: 1. U.S. Environmental Protection Agency Toxic Substance Control Act, TSCA, (Code of Federal Regulations Title 40, Part 761)
2. U.S. Environmental Protection Agency Office of Toxic Substances Guidance Document, Summary of PCB Regulations, EPA Document Number 910-S-94-002. 3. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) 4. RCRA, Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273 5. Oregon Administrative Rules: Hazardous Waste Regulations, OAR 340-100 through 340 -104; Universal Waste Management Regulations, OAR 340-113

PBS | Engineering + Environmental

Reynolds School District
Fairview Elementary School

Asbestos-Containing Building Materials Abatement
Probable Abatement Cost Estimate

Project No. 23881.001 Phase 0001
Prepared by: Chris Boyce
Date Prepared: February 24, 2016

Item	Unit	Quantity	Unit Price (USD)	Amount (USD)
A. Mobilization, Permits & Fees	EA	1	$ 5,500.00	$ 5,500.00
B. Asbestos-Containing Material Abatement				$ -
Mag Block Insulation on Boiler	SF	360	$ 12.50	$ 4,500.00
Mag Block Insulation on Tank	SF	110	$ 12.50	$ 1,375.00
Boiler Room Asbestos Pipe Insulation	LF	325	$ 5.00	$ 1,625.00
Asbestos Pipe Insulation	LF	1,500	$ 12.00	$ 18,000.00
Hard Fitting on Fiberglass Insulation	EA	115	$ 15.00	$ 1,725.00
Roofing Debris (see note below)	SF	15000	$ 2.00	$ 30,000.00
Vinyl Floor Tile/ Mastic	SF	23000	$ 2.50	$ 57,500.00
Sheet Floor Covering	SF	130	$ 3.50	$ 455.00
Sheet Linoleum on Counter Tops	SF	10	$ 7.00	$ 70.00
Cement Asbestos Board	SF	32	$ 2.00	$ 64.00
Chalkboard	SF	32	$ 3.00	$ 96.00
Gypsum Board / Joint Compound (see note below)	SF	12000	$ 3.00	$ 36,000.00
Caulk	LF	70	$ 7.00	$ 490.00
Metal clad millboard (Projection Booth)	SF	250	$ 3.75	$ 937.50
Sink Undercoating	EA	2	$ 50.00	$ 100.00
				$ -
Subtotal Estimated Project Costs				**$158,437.50**
Contingency - 10%				$15,843.75
TOTAL PROBABLE COSTS				**$190,125.00**

Cost Estimate Assumptions:

1. Cost estimate does not include abatement design, monitoring, clearance air sampling or closeout
2. Line item above for asbestos-containing roofing debris removal is provided as an order-of-magnitude cost only. Actual abatement cost may vary greatly and is contingent on abatement design effort and acceptance of alternate removal method approval by the Oregon Department of Enviornmental Quality.
3. Line item above for asbestos-containing Gypsum Board / Joint Compound removal is provided as an order-of-magnitude cost only. Actual abatement cost may vary greatly and is contingent on abatement design effort.
4. Cost estimate does not include any portables or roofing applications which were not included in the scope of work at the time of survey

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS.
2. ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT HAZARDOUS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWING.
3. ASBESTOS-CONTAINING PIPE INSULATION SHOWN IS FOR REFERENCE PURPOSES ONLY. EXACT LOCATION MAY VARY.
4. PORTABLE CLASSROOMS NOT SURVEYED.

LEGEND

- ASBESTOS-CONTAINING FLOOR TILE AND ASSOCIATED MASTIC
- ASBESTOS-CONTAINING FLOOR TILE AND NON-ASBESTOS MASTIC
- NON-ASBESTOS FLOOR TILE AND ASBESTOS-CONTAINING MASTIC
- ASBESTOS-CONTAINING SHEET FLOOR COVERING
- ASBESTOS-CONTAINING GLUE DOTS ASSOCIATED WITH CEILING TILES
- ASBESTOS-CONTAINING MAG BLOCK INSULATION
- ASBESTOS-CONTAINING HORIZONTAL PIPE RUN
- ∅ ASBESTOS-CONTAINING VERTICAL PIPE RUN
- (1) APPROXIMATE NUMBER AND LOCATION OF ASBESTOS-CONTAINING HARD FITTINGS ON FIBERGLASS
- ASBESTOS-CONTAINING WINDOW GLAZING COMPOUND
- CPT ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH CARPET
- ASBESTOS-CONTAINING DEBRIS

KEY NOTES (THIS SHEET)

(1) <1% ASBESTOS-CONTAINING TEXTURE ON GYPSUM CEILING

(2) <1% ASBESTOS-CONTAINING GYPSUM WALLBOARD /JOINT COMPOUND

(3) ASBESTOS-CONTAINING GYPSUM WALLBOARD /JOINT COMPOUND

(4) ASBESTOS-CONTAINING COUNTER TOP

(5) PRESUMED ASBESTOS-CONTAINING CHALKBOARD

(6) PRESUMED ASBESTOS-CONTAINING TRANSITE PANELS ON CRAWLSPACE DOORS

ASBESTOS SAMPLE SYMBOLS

◇ 007 — DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

NOT TESTED	NEGATIVE -	POSITIVE +	
○	⊖	●	THERMAL SYSTEM INSULATION
□	⊟	■	SURFACING MATERIAL
◇	◈	◆	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◆001	23881.001-0001	(-/+/-)	VINYL FLOOR TILE/MASTIC
◈002	23881.001-0002	(-/-/-)	COVEBASE/MASTIC
◈003	23881.001-0003	(-/-)	VINYL FLOOR TILE/MASTIC
⊟004	23881.001-0004	(-/-)	SINK UNDERCOATING
◈005	23881.001-0005	(-)	WALL AND CEILING PLASTER
◈006	23881.001-0006	(-)	PAINT
◈007	23881.001-0007	(-/-/-)	WALL PAPER / GYPSUM
◆008	23881.001-0008	(-/<1%)	WINDOW GLAZING COMPOUND
◈009	23881.001-0009	(-)	LAY-IN CEILING TILE
◆010	23881.001-0010	(-/+)	VINYL FLOOR TILE/MASTIC
◈011	23881.001-0011	(-/-)	SHEET FLOOR COVERING
◈012	23881.001-0012	(-/-/-)	VINYL FLOOR TILE/MASTIC
◈013	23881.001-0013	(-/-/-)	COVEBASE/MASTIC
◆014	23881.001-0014	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◆015	23881.001-0015	(<1%/-)	GLUED-ON CEILING TILES
◈016	23881.001-0016	(-/-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◆017	23881.001-0017	(-/+)	SHEET FLOOR COVERING
◈018	23881.001-0018	(-/-)	SHEET FLOOR COVERING
◈019	23881.001-0019	(-/-/-)	SHEET FLOOR COVERING
◈020	23881.001-0020	(-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◆021	23881.001-0021	(-/+)	VINYL FLOOR TILE/MASTIC
◈022	23881.001-0022	(-)	MASTIC
◆023	23881.001-0023	(<1%/+)	VINYL FLOOR TILE/MASTIC
◆024	23881.001-0024	(-/-/-/+/-)	SHEET FLOOR COVERING
◈025	23881.001-0025	(-/-)	COVEBASE/MASTIC

INVENTORY OF ASBESTOS SAMPLES CONTINUED

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◈026	23881.001-0026	(-)	PAINT
◈027	23881.001-0027	(-)	WALL AND CEILING PLASTER
◈028	23881.001-0028	(-)	WALL AND CEILING PLASTER
◈029	23881.001-0029	(-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◆030	23881.001-0030	(-/-/+)	GYPSUM WALLBOARD/JOINT COMPOUND
◆031	23881.001-0031	(-/<1%)	GLUED-ON CEILING TILES
◆032	23881.001-0032	(<1%/-)	GLUED-ON CEILING TILES
◈033	23881.001-0033	(-/-/-)	GLUED-ON CEILING TILES
⊖034	23881.001-0034	(-)	HARD FITTINGS/FIBERGLASS
⊖035	23881.001-0035	(-)	HARD FITTINGS/FIBERGLASS
⊖036	23881.001-0036	(-)	HARD FITTINGS/FIBERGLASS
◆037	23881.001-0037	(-/-/+/-)	VINYL FLOOR TILE/MASTIC
◈038	23881.001-0038	(-)	MASTIC
◈039	23881.001-0039	(-/-)	COVEBASE/MASTIC
◆040	23881.001-0040	(<1%/<1%/+/+)	VINYL FLOOR TILE/MASTIC
◆041	23881.001-0041	(-/+/+)	VINYL FLOOR TILE/MASTIC
◆042	23881.001-0042	(<1%/-)	VINYL FLOOR TILE/MASTIC
◈043	23881.001-0043	(-/-)	LAY-IN CEILING TILE
◈044	23881.001-0044	(-)	LAY-IN CEILING TILE
◆045	23881.001-0045	(<1%/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◈046	23881.001-0046	(-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◈047	23881.001-0047	(-)	STUCCO
◆048	23881.001-0048	(<1%/-/+)	GYPSUM WALLBOARD/JOINT COMPOUND
◆049	23881.001-0049	(<1%/<1%)	TEXTURED CEILING MATERIAL
⊖050	23881.001-0050	(-)	MECHANICAL ISOLATION CLOTH
◆051	23881.001-0051	(<1%)	WINDOW GLAZING COMPOUND
◆052	23881.001-0052	(<1%/-)	GYPSUM WALLBOARD/JOINT COMPOUND
□053	23881.001-0053	()	TEXTURED CEILING MATERIAL
◆054	23881.001-0054	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◈055	23881.001-0055	(-)	WINDOW GLAZING COMPOUND
◈056	23881.001-0056	(-)	CERAMIC TILE/GROUT
◈057	23881.001-0057	(-/-/-)	MASTIC

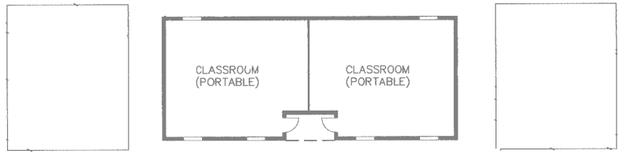
LEAD SAMPLE SYMBOLS

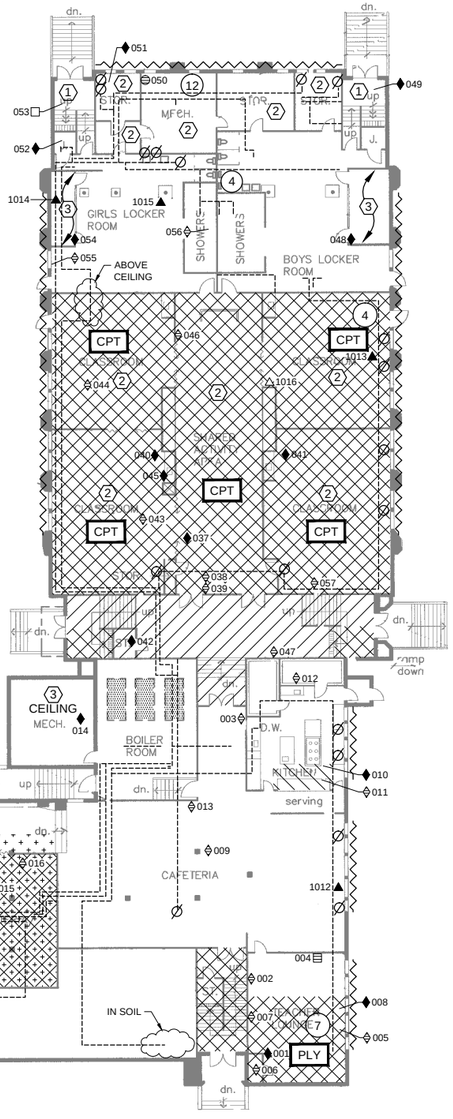
△ 1007 — DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

▲ LEAD DETECTED △ BELOW THE LIMIT OF DETECTION

INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1010	23881.001-1010	1100 ppm	PAINT; HALL, WALL, WOOD, WHITE
▲1011	23881.001-1011	140 ppm	PAINT; BOYS RESTROOM, WALL, CONCRETE, WHITE
▲1012	23881.001-1012	1500 ppm	PAINT; CAFETERIA, WALL,CONCRETE, LIGHT BLUE
▲1013	23881.001-1013	1200 ppm	PAINT; ROOM 25, WALL, CONCRETE, WHITE
▲1014	23881.001-1014	3200 ppm	PAINT; WEST STORAGE, WALL, CONCRETE, GREEN
▲1015	23881.001-1015	160000 ppm	PAINT; GIRLS DRESSING ROOM, BEAM, METAL, WHITE
△1016	23881.001-1016	<88 ppm	PAINT; FLEX ROOM, INFILL WALLS, GYPSUM, WHITE





LOWER FLOOR PLAN

0' 10' 20' 40'
APPROX. SCALE: 1" = 20'

PBS Engineering + Environmental
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FAIRVIEW ELEMENTARY SCHOOL
REYNOLDS SCHOOL DISTRICT
225 MAIN STREET
FAIRVIEW, OREGON

NO.	REVISION	BY	DATE	CHK

PROJECT:	23881.001
DRAWN:	DJ
CHECKED:	CB
DATE:	FEBRUARY 2016
DWG NO.	HM1
SHEET NO.	1 OF 2

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS.
2. ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT HAZARDOUS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWING.
3. ASBESTOS-CONTAINING ROOFING DEBRIS IS PRESENT THROUGHOUT THE ATTIC INTERSTITIAL SPACES.
4. ASBESTOS-CONTAINING PIPE INSULATION SHOWN IS FOR REFERENCE PURPOSES ONLY. EXACT LOCATION MAY VARY.
5. PORTABLE CLASS ROOMS NOT SURVEYED.

LEGEND

- ASBESTOS-CONTAINING FLOOR TILE AND ASSOCIATED MASTIC
- ASBESTOS-CONTAINING FLOOR TILE AND NON-ASBESTOS MASTIC
- NON-ASBESTOS FLOOR TILE AND ASBESTOS-CONTAINING MASTIC
- ASBESTOS-CONTAINING TAR PAPER UNDER NON-ASBESTOS FLOOR TILE AND WOOD UNDERLAYMENT
- ASBESTOS-CONTAINING CARPET MASTIC
- <1% ASBESTOS-CONTAINING GLUE DOTS ASSOCIATED WITH CEILING TILES
- --------- ASBESTOS-CONTAINING HORIZONTAL PIPE RUN
- ∅ ASBESTOS-CONTAINING VERTICAL PIPE RUN
- (1) APPROXIMATE NUMBER AND LOCATION OF ASBESTOS-CONTAINING HARD FITTINGS ON FIBERGLASS
- ASBESTOS-CONTAINING WINDOW GLAZING COMPOUND
- CPT ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH CARPET
- PLY ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH PLYWOOD AND/OR OTHER LAYERS OF FLOORING
- SHT ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH NON-ASBESTOS SHEET FLOORING AND/OR OTHER LAYERS

KEY NOTES (THIS SHEET)

1. <1% ASBESTOS-CONTAINING COVE BASE MASTIC
2. <1% ASBESTOS-CONTAINING GYPSUM WALLBOARD /JOINT COMPOUND
3. ASBESTOS-CONTAINING SINK UNDERCOATING
4. ASBESTOS-CONTAINING CAULK ON GLASS BLOCK
5. ASBESTOS-CONTAINING PROJECTION BOOTH PANELING (ABOVE ENTRY FOYER)
6. <1% ASBESTOS-CONTAINING GLUE DOTS ASSOCIATED WITH CEILING TILES ON WALLS

ASBESTOS SAMPLE SYMBOLS

◊ 007 — DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

NOT TESTED	NEGATIVE -	POSITIVE +	
○	⊖	●	THERMAL SYSTEM INSULATION
□	⊟	■	SURFACING MATERIAL
◊	⟠	♦	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
♦058	23881.001-0058	(+)	MASTIC
⟠059	23881.001-0059	(-/-)	VINYL FLOOR TILE/MASTIC
⟠060	23881.001-0060	(-/-)	STAIR SKIRTING
⟠061	23881.001-0061	(-/-)	COVEBASE/MASTIC
◊062	23881.001-0062	(-/-)	MASTIC
♦063	23881.001-0063	(<1%/-)	VINYL FLOOR TILE/MASTIC
⊖064	23881.001-0064	(-/-/-)	MATERIAL DEBRIS
♦065	23881.001-0065	(<1%/-/+/-)	MATERIAL DEBRIS
⟠066	23881.001-0066	()	MATERIAL DEBRIS
⟠067	23881.001-0067	(-)	LAY-IN CEILING TILE
◊068	23881.001-0068	()	TEXTURED CEILING MATERIAL
⟠069	23881.001-0069	(-)	PAPER FELT
♦070	23881.001-0070	(<1%/-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
♦071	23881.001-0071	(<1%/-/<1%)	GYPSUM WALLBOARD/JOINT COMPOUND
⟠072	23881.001-0072	(-/-/-)	MASTIC
⟠073	23881.001-0073	(-/-)	COVEBASE/MASTIC
⟠074	23881.001-0074	(-)	WINDOW GLAZING COMPOUND
♦075	23881.001-0075	(+)	MASTIC

INVENTORY OF ASBESTOS SAMPLES CONTINUED

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
⟠076	23881.001-0076	(-)	TAR FELT
⟠077	23881.001-0077	(-/-)	SHEET FLOOR COVERING
⟠078	23881.001-0078	(-)	WINDOW GLAZING COMPOUND
⟠079	23881.001-0079	(-/-)	GLUED-ON CEILING TILES
♦080	23881.001-0080	(<1%/+)	TAR FELT
⟠081	23881.001-0081	(-/-/-)	TAR PAPER
⟠082	23881.001-0082	(-)	ASPHALT IMPREGNATED PAPER
♦083	23881.001-0083	(<1%)	MASTIC
◊084	23881.001-0084	()	TAR FELT
⟠085	23881.001-0085	(-/-)	SHEET FLOOR COVERING
♦086	23881.001-0086	(+/+)	VINYL FLOOR TILE/MASTIC
⟠087	23881.001-0087	(-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
⟠088	23881.001-0088	(-/-)	WALLPAPER
♦089	23881.001-0089	(-/-/<1%)	COVEBASE/MASTIC
⟠090	23881.001-0090	(-)	WINDOW GLAZING COMPOUND
♦091	23881.001-0091	(-/+/+/-)	VINYL FLOOR TILE/MASTIC
♦092	23881.001-0092	(-/+/<1%)	VINYL FLOOR TILE/MASTIC
⟠093	23881.001-0093	(-/-)	WALL AND CEILING PLASTER
⟠094	23881.001-0094	(-/-/-)	VINYL FLOOR TILE/MASTIC
⟠095	23881.001-0095	(-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
⟠096	23881.001-0096	(-)	TEXTURED CEILING MATERIAL
⟠097	23881.001-0097	(-)	BATT INSULATION
⟠098	23881.001-0098	(-/-)	GLUED-ON CEILING TILES
⊟099	23881.001-0099	(-)	SINK UNDERCOATING
■100	23881.001-0100	(+)	SINK UNDERCOATING
■101	23881.001-0101	(+)	SINK UNDERCOATING
⊖102	23881.001-0102	(-/-)	WALL AND CEILING PLASTER
⊖103	23881.001-0103	(-)	TAR PAPER
⊖104	23881.001-0104	(-)	GLUED-ON CEILING TILES
⊖105	23881.001-0105	(-)	HARD FITTINGS/FIBERGLASS
⊖106	23881.001-0106	(-)	HARD FITTINGS/FIBERGLASS
⊖107	23881.001-0107	(-)	HARD FITTINGS/FIBERGLASS
⟠108	23881.001-0108	(-/-/-)	CERAMIC TILE/GROUT
⟠109	23881.001-0109	(-)	CONCEALED GRID CEILING TILE
⟠110	23881.001-0110	(-/-)	SHEET FLOOR COVERING
⟠111	23881.001-0111	(-)	MORTAR
⟠112	23881.001-0112	(-/-/-)	MASTIC
⟠113	23881.001-0113	(-/-)	STUCCO

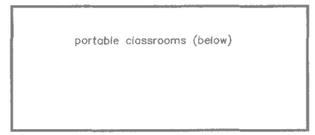
LEAD SAMPLE SYMBOLS

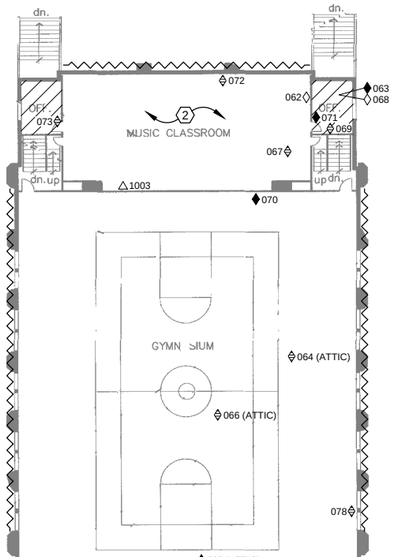
△ 1007 — DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

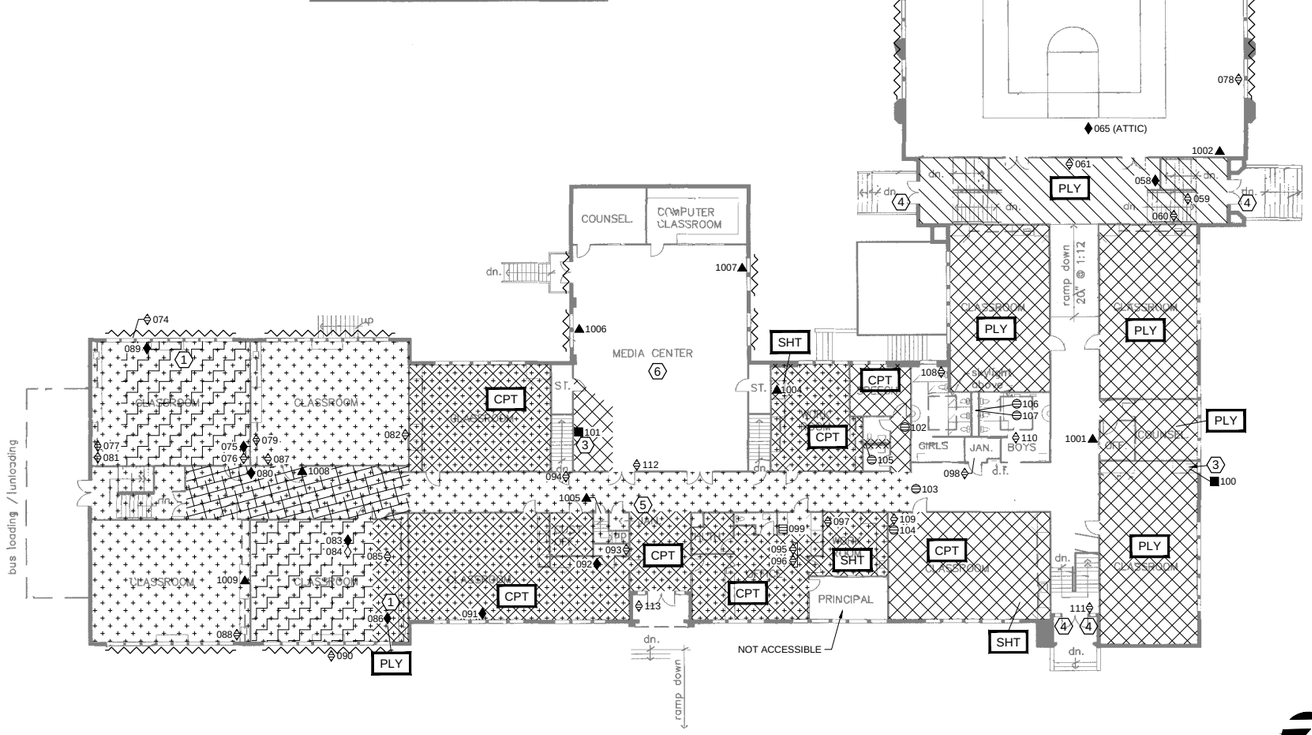
▲ LEAD DETECTED △ BELOW THE LIMIT OF DETECTION

INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1001	23881.001-1001	1700 ppm	PAINT; EAST HALL, WALL, GYPSUM, OFF-WHITE
▲1002	23881.001-1002	420 ppm	PAINT; GYM, WALL, CONCRETE, WHITE
△1003	23881.001-1003	<99 ppm	PAINT; MUSIC ROOM, WALL, GYPSUM, BEIGE
▲1004	23881.001-1004	3000 ppm	PAINT; TEACHER'S WORK ROOM, CABINETS, WOOD, BLUE
▲1005	23881.001-1005	3400 ppm	PAINT; CLOSET, DOOR JAM, WOOD, CLEAR
▲1006	23881.001-1006	1100 ppm	PAINT; MEDIA CENTER, COLUMN/WALL, PLASTER, BEIGE
▲1007	23881.001-1007	3300 ppm	PAINT; MEDIA CENTER, WINDOW, METAL, GREEN
▲1008	23881.001-1008	410 ppm	PAINT; ROOM 7, WALL, GYPSUM, OFF-WHITE
▲1009	23881.001-1009	210000 ppm	PAINT; ROOM 10, DOOR FRAME, METAL, GREEN







MAIN FLOOR PLAN

0' 10' 20' 40'
APPROX. SCALE: 1" = 20'

PBS Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239
503.248.1939 Main
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FAIRVIEW ELEMENTARY SCHOOL
REYNOLDS SCHOOL DISTRICT
225 MAIN STREET
FAIRVIEW, OREGON

NO.	REVISION	BY	DATE	CHK

PROJECT:	23881.001
DRAWN:	DJ
CHECKED:	CB
DATE:	FEBRUARY 2016
DWG NO.	HM2
SHEET NO.	2 OF 2

Code	Material	Location	Results	Lab
23881.001-0001	Vinyl Floor Tile/Mastic	Main Building; lower level, teacher's lounge, brown 9"x9", black mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	vinyl tile, red	8% Chrysotile	
	Layer 3	mastic, black	No Asbestos Detected	
23881.001-0002	Covebase/Mastic	Main Building; lower level, teacher's lounge, 4" black covebase, multiple mastics		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, brown	No Asbestos Detected	
	Layer 2	mastic, off-white	No Asbestos Detected	
	Layer 3	mastic, brown	No Asbestos Detected	
23881.001-0003	Vinyl Floor Tile/Mastic	Main Building; lower level, cafeteria, 12"x12" white with gray speckles		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
23881.001-0004	Sink Undercoating	Main Building; lower level, teacher's lounge, white undercoating, black tar pad		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	tar, black	No Asbestos Detected	
	Layer 2	fine loose particulate, white	No Asbestos Detected	
23881.001-0005	Wall and Ceiling Plaster	Main Building; lower level, teacher's lounge, plaster on concrete foundation wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, gray with paint, off-white	No Asbestos Detected	
23881.001-0006	Paint	Main Building; lower level, teacher's lounge, closet, textured paint on concrete		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular particulate with paint, white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0007	Wall Paper / Gypsum	Main Building; lower level, teacher's lounge, wallpaper on gypsum		
	Layer:	**Description:**	**Analysis:**	
	Layer 1	thick fibrous material, brown/blue/green	No Asbestos Detected	
	Layer 2	mastic, dark brown	No Asbestos Detected	
	Layer 3	compact chalky material with paper, white	No Asbestos Detected	
23881.001-0008	Window Glazing Compound	Main Building; lower level, teacher's lounge, interior glazed windows		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	hard compact powder, off-white	No Asbestos Detected	
	Layer 2	hard compact powder, gray	<1% Chrysotile	
23881.001-0009	Lay-in Ceiling Tile	Main Building; lower level, cafeteria, 2'x4' crevice pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23881.001-0010	Vinyl Floor Tile/Mastic	Main Building; lower level, kitchen, below counter, 12"x12" tan smudges		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white	No Asbestos Detected	
	Layer 2	mastic, orange/black	2% Chrysotile	
23881.001-0011	Sheet Floor Covering	Main Building; lower level, kitchen, gray mosaic pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, pebbled, off-white/gray	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
23881.001-0012	Vinyl Floor Tile/Mastic	Main Building; lower level, kitchen, office, 12"x12" white with blue and pink		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, clear	No Asbestos Detected	
	Layer 2	vinyl tile, off-white	No Asbestos Detected	
	Layer 3	mastic, yellow	No Asbestos Detected	
23881.001-0013	Covebase/Mastic	Main Building; lower level, cafeteria, 4" gray with old brown mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, gray	No Asbestos Detected	
	Layer 2	mastic, white	No Asbestos Detected	
	Layer 3	mastic, brown	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0014	Gypsum Wallboard/Joint Compound	Main Building; lower level, boiler room work room, gypsum ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, off-white	3% Chrysotile	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.001-0015	Glued-on Ceiling Tiles	Main Building; lower level, Room 27, 1'x1' fissure pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, brown	<1% Anthophyllite	
	Layer 2	compressed fibers, brown with powder, white	No Asbestos Detected	
23881.001-0016	Gypsum Wallboard/Joint Compound	Main Building; lower level, Room 27, gypsum infill wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, off-white	No Asbestos Detected	
	Layer 2	fine compact powder, off-white with paper backing, brown	No Asbestos Detected	
	Layer 3	compact chalky material with paper, white	No Asbestos Detected	
23881.001-0017	Sheet Floor Covering	Main Building; lower level, storage room, yellow pebble pattern on counter		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, pebbled, tan	No Asbestos Detected	
	Layer 2	fibrous backing, gray	40% Chrysotile	
23881.001-0018	Sheet Floor Covering	Main Building; lower level, boys restroom, gray mosaic with blue and pink		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, gray/off-white	No Asbestos Detected	
	Layer 2	fibrous backing, gray with powder, white	No Asbestos Detected	
23881.001-0019	Sheet Floor Covering	Main Building; lower level, storage room, IT closet, gold marbled pattern on counter		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, tan	No Asbestos Detected	
	Layer 2	fibrous tar backing, black	No Asbestos Detected	
	Layer 3	mastic, brown	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0020	Gypsum Wallboard/Joint Compound	Main Building; lower level, book room storage, ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, off-white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.001-0021	Vinyl Floor Tile/Mastic	Main Building; lower level, west end main hall, 12"x12" blue, black mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, light blue	No Asbestos Detected	
	Layer 2	mastic, black with coating, gray	2% Chrysotile	
23881.001-0022	Mastic	West Addition; lower level, Room 20, brown, below carpet tiles		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, orange	No Asbestos Detected	
23881.001-0023	Vinyl Floor Tile/Mastic	West Addition; lower level, Room 21, 12"x12" mustard over residual black		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, tan	<1% Chrysotile	
	Layer 2	mastic, black	2% Chrysotile	
23881.001-0024	Sheet Floor Covering	West Addition; lower level, Room 22A, gray sandy pebble pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous particulate, gray	No Asbestos Detected	
	Layer 2	mastic, orange	No Asbestos Detected	
	Layer 3	vinyl sheet, tan	No Asbestos Detected	
	Layer 4	fibrous backing, gray with mastic, orange	40% Chrysotile	
	Layer 5	granular compact powder, gray	No Asbestos Detected	
23881.001-0025	Covebase/Mastic	West Addition; lower level, Room 22A, black covebase with brown mastics		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, dark brown	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0026	Paint	Main Building; lower level, room 27, textured paint on concrete		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose paint particulate with powder, blue/white	No Asbestos Detected	
23881.001-0027	Wall and Ceiling Plaster	Main Building; lower level, storage room, plaster on concrete		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, gray with paint, off-white	No Asbestos Detected	
23881.001-0028	Wall and Ceiling Plaster	Main Building; lower level, IT closet, off storage room, plaster on concrete		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose granular particulate, gray with paint, pink/blue	No Asbestos Detected	
23881.001-0029	Gypsum Wallboard/Joint Compound	West Addition; lower level, Room 20, wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, blue	No Asbestos Detected	
23881.001-0030	Gypsum Wallboard/Joint Compound	West Addition; lower level, Room 21, wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with paper backing, gray	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
	Layer 3	fine compact powder, off-white	2% Chrysotile	
23881.001-0031	Glued-on Ceiling Tiles	West Addition; lower level, Room 22A, 1'x1' glued-on pinhole		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, yellow with coating, white	No Asbestos Detected	
	Layer 2	mastic, brown	<1% Anthophyllite	
23881.001-0032	Glued-on Ceiling Tiles	West Addition; lower level, Room 21, 1'x1' old random drill hole		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, brown	<1% Anthophyllite	
	Layer 2	compressed fibrous material, brown with paint, white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0033	Glued-on Ceiling Tiles	West Addition; lower level, hall at west stair, 1'x1' new random drill hole		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
	Layer 2	mastic, tan	No Asbestos Detected	
	Layer 3	fibrous backing, gray/tan	No Asbestos Detected	
23881.001-0034	Hard Fittings/Fiberglass	West Addition; lower level, Room 22B, QC fitting on DW		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous powder, tan	No Asbestos Detected	
23881.001-0035	Hard Fittings/Fiberglass	West Addition; lower level, Room 22A, fitting on steam		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine loose powder, tan	No Asbestos Detected	
23881.001-0036	Hard Fittings/Fiberglass	West Addition; lower level, Room 21, fitting on steam		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fine powder, tan	No Asbestos Detected	
23881.001-0037	Vinyl Floor Tile/Mastic	Gym Building; lower level, flex room, 9"x9" brown tile, mastics		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	fine cementitious material, dark gray	No Asbestos Detected	
	Layer 3	vinyl tile, red	7% Chrysotile	
	Layer 4	thin mastic, black	No Asbestos Detected	
23881.001-0038	Mastic	Gym Building; lower level, flex room, dark brown carpet mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous mastic, tan/brown	No Asbestos Detected	
23881.001-0039	Covebase/Mastic	Gym Building; lower level, flex room, 4" black, multiple mastics		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, brown	No Asbestos Detected	
	Layer 2	thin rubbery material, dark gray with mastic, off-white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0040	Vinyl Floor Tile/Mastic	Gym Building; lower level, Room 23, 12"x12" mustard tile over 9"x9" tan tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, yellow/brown with mastic, black	<1% Chrysotile	
	Layer 2	mastic, black with coating, white	<1% Chrysotile	
	Layer 3	vinyl tile, tan	8% Chrysotile	
	Layer 4	mastic, black	2% Chrysotile	
23881.001-0041	Vinyl Floor Tile/Mastic	Gym Building; lower level, Room 25, 9"x9" red tile with brown carpet mastic ands black tile mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, tan	No Asbestos Detected	
	Layer 2	vinyl tile, red	6% Chrysotile	
	Layer 3	mastic, black	4% Chrysotile	
23881.001-0042	Vinyl Floor Tile/Mastic	Gym Building; lower level, foyer to café, 12"x12" tan with brown streaks		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white/tan	<1% Chrysotile	
	Layer 2	mastic, black	No Asbestos Detected	
23881.001-0043	Lay-in Ceiling Tile	Gym Building; lower level, Room 23, 2'x4' fissured pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
	Layer 2	loose fibrous material, light yellow	No Asbestos Detected	
23881.001-0044	Lay-in Ceiling Tile	Gym Building; lower level, Room 24, 2'x4' sandy pinhole pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23881.001-0045	Gypsum Wallboard/Joint Compound	Gym Building; lower level, Room 23, original walls		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, off-white	<1% Chrysotile	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0046	Gypsum Wallboard/Joint Compound	Gym Building; lower level, flex room, infill wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.001-0047	Stucco	Gym Building; lower level, foyer, south wall of main building		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose granular material, gray with paint, white	No Asbestos Detected	
23881.001-0048	Gypsum Wallboard/Joint Compound	Gym Building; lower level, east storage, wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, light green with fine compact powder, white	<1% Chrysotile	
	Layer 2	fine compact powder, off-white with paper backing, white	No Asbestos Detected	
	Layer 3	thick compact powder, off-white	2% Chrysotile	
23881.001-0049	Textured Ceiling Material	Gym Building; lower level, northeast stair ceiling, ceiling texture on gypsum		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, off-white	<1% Chrysotile	
	Layer 2	fine compact powder, off-white with paper backing, gray	<1% Chrysotile	
23881.001-0050	Mechanical Isolation Cloth	Gym Building; lower level, mechanical room, mechanical isolation cloth		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	woven fibers, tan	No Asbestos Detected	
23881.001-0051	Window Glazing Compound	Gym Building; lower level, northwest office/storage, interior window glazing		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	hard compact powder, gray	<1% Chrysotile	
23881.001-0052	Gypsum Wallboard/Joint Compound	Gym Building; lower level, northwest custodial, wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, green with fine compact powder, white	<1% Chrysotile	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0053	Textured Ceiling Material	Gym Building; lower level, northwest stair ceiling, texture on gypsum/joint compound		DCM Science Laboratory
	Layer:	**Description:**	**Analysis:**	
	Comments: Sample archived, not analyzed.			
23881.001-0054	Gypsum Wallboard/Joint Compound	Gym Building; lower level, west storage, wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, red with fine compact powder, white	2% Chrysotile	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.001-0055	Window Glazing Compound	Gym Building; lower level, west locker room, interior window glazing		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	hard compact powder, gray/green	No Asbestos Detected	
23881.001-0056	Ceramic Tile/Grout	Gym Building; lower level, west locker room, red block with gray grout		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose granular powder, gray with paint, white	No Asbestos Detected	
23881.001-0057	Mastic	Gym Building; lower level, Room 26, pin boards, gold mastic on Firtex panels		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, orange with paint, white	No Asbestos Detected	
	Layer 2	compressed fibers, brown	No Asbestos Detected	
	Layer 3	mastic, tan	No Asbestos Detected	
23881.001-0058	Mastic	Gym Building; main floor, foyer, mastic on wood		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, black on wood fibers	2% Chrysotile	
23881.001-0059	Vinyl Floor Tile/Mastic	Gym Building; main floor, foyer stairs, 12"x12" tan and white smudges		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white	No Asbestos Detected	
	Layer 2	mastic with particulate, gray	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.001-0060	Stair Skirting		Gym Building; main floor, foyer stairs, black stair skirting, brown mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, dark brown	No Asbestos Detected	
		Layer 2	mastic, brown	No Asbestos Detected	
23881.001-0061	Covebase/Mastic		Gym Building; main floor, foyer, 6" tan with multiple mastics		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, tan	No Asbestos Detected	
		Layer 2	mastic, tan/off-white with powder, white	No Asbestos Detected	
23881.001-0062	Mastic		Gym Building; main floor, music room, brown carpet mastic on wood		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	carpet fibers, multicolored	No Asbestos Detected	
		Layer 2	mastic, yellow	No Asbestos Detected	
23881.001-0063	Vinyl Floor Tile/Mastic		Gym Building; main floor, east storage room, 9"x9" mustard, black mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl tile, tan	<1% Chrysotile	
		Layer 2	mastic, black	No Asbestos Detected	
23881.001-0064	Material Debris		Gym Building; main floor, gym attic, roofing debris		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fibrous tar, black	No Asbestos Detected	
		Layer 2	tar particulate, black	No Asbestos Detected	
		Layer 3	fine cementitous material, gray	No Asbestos Detected	
23881.001-0065	Material Debris		Gym Building; main floor, gym attic, roofing debris		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	textured fibrous tar, black	<1% Chrysotile	
		Layer 2	fibrous tar, black	No Asbestos Detected	
		Layer 3	fibrous tar particulate, black	2% Chrysotile	
		Layer 4	granular compact powder, gray	No Asbestos Detected	
23881.001-0066	Material Debris		Gym Building; main floor, gym attic, roofing debris		
		Layer:	**Description:**	**Analysis:**	

Comments: Sample archived, not analyzed.

Code	Material		Location	Results	Lab
23881.001-0067	Lay-in Ceiling Tile		Gym Building; main floor, music room, 2'x4' fissure pattern		
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23881.001-0068	Textured Ceiling Material		Gym Building; main floor, music room storage, texture on gypsum		
		Layer:	**Description:**	**Analysis:**	
	Comments:	Sample archived, not analyzed.			
23881.001-0069	Paper Felt		Gym Building; storage above music room office, ceiling		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fibrous material, brown with mastic, black	No Asbestos Detected	
23881.001-0070	Gypsum Wallboard/Joint Compound		Gym Building; main floor, north wall, gypsum wall		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	paint, blue with fine compact powder, white	<1% Chrysotile	
		Layer 2	fine compact powder, off-white with paper backing, white	No Asbestos Detected	
		Layer 3	compact chalky material with paper, white	No Asbestos Detected	
23881.001-0071	Gypsum Wallboard/Joint Compound		Gym Building; music room storage, wall		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	paint, beige with fine compact powder, off-white	<1% Chrysotile	
		Layer 2	compact chalky material with paper, white	No Asbestos Detected	
		Layer 3	textured compact powder, off-white	<1% Chrysotile	
23881.001-0072	Mastic		Gym Building; music room, tan on sound attenuation panels		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	paint, white	No Asbestos Detected	
		Layer 2	mastic, tan	No Asbestos Detected	
		Layer 3	loose fibrous material, yellow	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.001-0073	Covebase/Mastic		Gym Building; music room, 6" black covebase, mixed mastics		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, tan/off-white	No Asbestos Detected	
		Layer 2	hard compact powder, tan with paper backing, brown	No Asbestos Detected	
23881.001-0074	Window Glazing Compound		West Addition; main floor, Room 9, exterior window glazing		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard compact powder, gray	No Asbestos Detected	
23881.001-0075	Mastic		West Addition; main floor, Room 9, mastic under carpet		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, orange/black on wood fibers	2% Chrysotile	
23881.001-0076	Tar Felt		West Addition; main floor, Room 9, tar felt below particle board		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fibrous tar, black	No Asbestos Detected	
23881.001-0077	Sheet Floor Covering		West Addition; main floor, Room 9, brown pebble pattern		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl sheet, pebbled, tan	No Asbestos Detected	
		Layer 2	fibrous backing, gray with mastic, orange	No Asbestos Detected	
23881.001-0078	Window Glazing Compound		Gym Building; gym, east windows, interior old gray glazing		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard compact powder, gray/green	No Asbestos Detected	
23881.001-0079	Glued-on Ceiling Tiles		West Addition; main floor, Room 10, 1'x1' random drill hole		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, brown	No Asbestos Detected	
		Layer 2	compressed fibers, gray	No Asbestos Detected	
23881.001-0080	Tar Felt		West Addition; main floor, hall, tar felt above and below particle board		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fibrous tar material, black	<1% Chrysotile	
		Layer 2	vinyl particulate, tan with fibrous backing, black	3% Chrysotile	

Code	Material		Location	Results	Lab
23881.001-0081	Tar Paper		West Addition; main floor, Room 9, brown pebble particle board, felt paper		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl sheet, pebbled, tan	No Asbestos Detected	
		Layer 2	fibrous backing, gray with mastic, yellow	No Asbestos Detected	
		Layer 3	fibrous tar backing, black	No Asbestos Detected	
23881.001-0082	Asphalt Impregnated Paper		West Addition; main floor, Room 10, paper below plywood		
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fibrous material, dark brown	No Asbestos Detected	
23881.001-0083	Mastic		West Addition; main floor, Room 7, mastic under carpet		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, tan/black on wood fibers	<1% Chrysotile	
23881.001-0084	Tar Felt		West Addition; main floor, Room 7, tar felt under particle board		Lab Cor
		Layer:	**Description:**	**Analysis:**	
	Comments:	Sample archived, not analyzed.			
23881.001-0085	Sheet Floor Covering		West Addition; main floor, Room 7, small tan pebble pattern		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl sheet, pebbled, tan	No Asbestos Detected	
		Layer 2	fibrous backing, gray	No Asbestos Detected	
23881.001-0086	Vinyl Floor Tile/Mastic		West Addition; main floor, Room 7, tan tile, black mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl tile, tan/gray	7% Chrysotile	
		Layer 2	mastic, black	2% Chrysotile	
23881.001-0087	Gypsum Wallboard/Joint Compound		West Addition; main floor, Room 10, wall		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	paint, green with paper backing, brown	No Asbestos Detected	
		Layer 2	compact chalky material with paper, white	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.001-0088	Wallpaper		West Addition; main floor, Room 8, wallpaper wainscoting		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	woven material with coating, blue	No Asbestos Detected	
		Layer 2	woven material with paper backing, brown	No Asbestos Detected	
23881.001-0089	Covebase/Mastic		West Addition; main floor, Room 9, 4" brown, multiple mastics		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, dark brown	No Asbestos Detected	
		Layer 2	mastic, white	No Asbestos Detected	
		Layer 3	mastic, brown	<1% Anthophyllite	
23881.001-0090	Window Glazing Compound		West Addition; main floor, Room 7 exterior, gray, exterior		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard compact powder, gray	No Asbestos Detected	
23881.001-0091	Vinyl Floor Tile/Mastic		Main Building; main floor, Room 6, gray tile on tar felt		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, orange	No Asbestos Detected	
		Layer 2	vinyl tile, gray	5% Chrysotile	
		Layer 3	mastic, black	2% Chrysotile	
		Layer 4	fibrous tar backing, black	No Asbestos Detected	
23881.001-0092	Vinyl Floor Tile/Mastic		Main Building; main floor, Room 6, green 9"x9", black mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, orange	No Asbestos Detected	
		Layer 2	vinyl tile, green	10% Chrysotile	
		Layer 3	mastic, black	<1% Chrysotile	
23881.001-0093	Wall and Ceiling Plaster		Main Building; main floor, Room 6 closet, original plaster on wood lath		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard compact powder, white	No Asbestos Detected	
		Layer 2	granular compact powder, gray	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0094	Vinyl Floor Tile/Mastic	Main Building; main floor, hall at stairs, 12"x12" gray leveling, on tar felt		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white	No Asbestos Detected	
	Layer 2	fine compact powder, gray	No Asbestos Detected	
	Layer 3	fibrous tar backing, black with mastic, brown	No Asbestos Detected	
23881.001-0095	Gypsum Wallboard/Joint Compound	Main Building; main floor, main office, health, wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.001-0096	Textured Ceiling Material	Main Building; main floor, main office, spray-on wall texture		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white with paint, white	No Asbestos Detected	
23881.001-0097	Batt Insulation	Main Building; main floor, main office, above ceiling, fibrous brown batt insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, gray	No Asbestos Detected	
23881.001-0098	Glued-on Ceiling Tiles	Main Building; main floor, janitor closet, 1'x1' grid pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, brown	No Asbestos Detected	
	Layer 2	compressed fibers, brown	No Asbestos Detected	
23881.001-0099	Sink Undercoating	Main Building; main floor, main office, gray undercoating		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose flaky material, gray	No Asbestos Detected	
23881.001-0100	Sink Undercoating	Main Building; main floor, Room 15, black undercoating		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, black	5% Chrysotile	
23881.001-0101	Sink Undercoating	Main Building; main floor, media center, bronze/metallic undercoating		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, dark gray/silver	2% Chrysotile	

Code	Material	Location	Results	Lab
23881.001-0102	Wall and Ceiling Plaster	Main Building; main floor, staff restroom hall, original building plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, yellow with coating, tan/blue	No Asbestos Detected	
	Layer 2	granular compact powder, gray	No Asbestos Detected	
23881.001-0103	Tar Paper	Main Building; main floor, hall above ceiling, old exterior vapor barrier		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous material, dark brown	No Asbestos Detected	
23881.001-0104	Glued-on Ceiling Tiles	Main Building; main floor, Room 16, 1'x1' nail-on tile with slits		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, brown with paint, white	No Asbestos Detected	
23881.001-0105	Hard Fittings/Fiberglass	Main Building; main floor, wet wall at staff restroom, gray		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous powder, gray	No Asbestos Detected	
23881.001-0106	Hard Fittings/Fiberglass	Main Building; main floor, wet wall at staff restroom, gray		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous powder, gray	No Asbestos Detected	
23881.001-0107	Hard Fittings/Fiberglass	Main Building; main floor, wet wall at staff restroom, gray		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact fibrous powder, gray	No Asbestos Detected	
23881.001-0108	Ceramic Tile/Grout	Main Building; main floor, girls restroom, thin set and grout on 2"x2" tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	ceramic tile, red/gray	No Asbestos Detected	
	Layer 2	fine cementitious material, red	No Asbestos Detected	
	Layer 3	hard compact powder, white	No Asbestos Detected	
23881.001-0109	Concealed Grid Ceiling Tile	Main Building; main floor, Room 16, 1'x1' concealed grid tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.001-0110	Sheet Floor Covering	Main Building; main floor, boys restroom, small tan pebble pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, pebbled, tan	No Asbestos Detected	
	Layer 2	fibrous backing, gray with mastic, yellow	No Asbestos Detected	
23881.001-0111	Mortar	Main Building; main floor, southeast entry, mortar on glass blocks		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, off-white	No Asbestos Detected	
23881.001-0112	Mastic	Main Building; main floor, media center pin boards, tan mastic on plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, gray/white	No Asbestos Detected	
	Layer 2	mastic, tan	No Asbestos Detected	
	Layer 3	compressed fibers, brown	No Asbestos Detected	
23881.001-0113	Stucco	Main Building; main entrance exterior, walls		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	textured paint, blue/white	No Asbestos Detected	
	Layer 2	granular compact powder, tan	No Asbestos Detected	

Code	Material	Analysis	Location	Lab
PAINT				
LB23881.001-1001	Paint	1700 ppm	Main building; east hall, wall, gypsum, off-white, good condition	R.J. Lee Group
LB23881.001-1002	Paint	420 ppm	Gym building; gym, wall, concrete, white, poor condition	R.J. Lee Group
LB23881.001-1003	Paint	<99 ppm	Gym building; music room, wall, gypsum, beige, good condition	R.J. Lee Group
LB23881.001-1004	Paint	3000 ppm	Main building; teacher's work room, cabinets, wood, blue, good condition	R.J. Lee Group
LB23881.001-1005	Paint	3400 ppm	Main building; closet, door jam, wood, clear, good condition	R.J. Lee Group
LB23881.001-1006	Paint	1100 ppm	Main building; media center, column/wall, plaster, beige, good condition	R.J. Lee Group
LB23881.001-1007	Paint	3300 ppm	Main building; media center, window, metal, green, fair condition	R.J. Lee Group
LB23881.001-1008	Paint	410 ppm	West addition; Room 7, wall, gypsum, off-white, good condition	R.J. Lee Group
LB23881.001-1009	Paint	210000 ppm	West addition; Room 10, door frame, metal, green, fair condition	R.J. Lee Group
LB23881.001-1010	Paint	1100 ppm	West addition; lower level, hall, wall, wood, white, good condition	R.J. Lee Group
LB23881.001-1011	Paint	140 ppm	Main building; lower level, boys restroom, wall, concrete, white, good condition	R.J. Lee Group
LB23881.001-1012	Paint	1500 ppm	Main building; lower level, cafeteria, wall,concrete, light blue, fair condition	R.J. Lee Group
LB23881.001-1013	Paint	1200 ppm	Gym building; lower level, Room 25, wall, concrete, white, fair condition	R.J. Lee Group
LB23881.001-1014	Paint	3200 ppm	Gym building; lower level, west storage, wall, concrete, green, poor condition	R.J. Lee Group
LB23881.001-1015	Paint	160000 ppm	Gym building; lower level, girls dressing room, beam, metal, white, good condition	R.J. Lee Group
LB23881.001-1016	Paint	<88 ppm	Gym building; lower level, flex room, infill walls, gypsum, white, good condition	R.J. Lee Group

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BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055
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Asbestos and Environmental Analysis

Client: PBS Engineering and Environmental
4412 SW Corbett Avenue
Portland, OR 97239

Report Number: 160007R01
Report Date: 01/11/2016
P.O. No: n/a

Job Number: **160007**
Project Name:
Project Number: 23881.001 Phase 0001
Project Notes:

Client Sample ID: **23881.001-0001** **Sample ID:** S1 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, yellow	20 %	-	-	-	**NAD**
Layer 02					
vinyl tile, red	72 %	8 %	-	-	**8 %**
Layer 03					
mastic, black	8 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	Trace	-	-	100 %
Layer 02	-	-	-	-	-	-	92 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: **23881.001-0002** **Sample ID:** S2 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, brown	85 %	-	-	-	**NAD**
Layer 02					
mastic, off-white	10 %	-	-	-	**NAD**
Layer 03					
mastic, brown	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

NVLAP LAB CODE 200741-0

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Job Number: **160007**

Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: **23881.001-0003** **Sample ID:** S3 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl tile, white	95 %	-	-	-			**NAD**
Layer 02							
mastic, yellow	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23881.001-0004** **Sample ID:** S4 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
tar, black	20 %	-	-	-			**NAD**
Layer 02							
fine loose particulate, white	80 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	8 %	-	-	-	-	92 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23881.001-0005** **Sample ID:** S5 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
granular compact powder, gray with paint, off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Job Number: 160007

Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0006 **Sample ID:** S6 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
granular particulate with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0007 **Sample ID:** S7 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
thick fibrous material, brown/blue/green	45 %	-	-	-			**NAD**
Layer 02							
mastic, dark brown	5 %	-	-	-			**NAD**
Layer 03							
compact chalky material with paper, white	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	95 %	-	-	-	-	5 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	2 %	-	-	-	-	98 %

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Asbestos and Environmental Analysis

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Job Number: 160007

Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0008 **Sample ID:** S8 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard compact powder, off-white	55 %	-	-	-	**NAD**
Layer 02					
hard compact powder, gray	45 %	Trace	-	-	**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0009 **Sample ID:** S9 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	35 %	55 %	-	-	-	Perlite	10 %

Client Sample ID: 23881.001-0010 **Sample ID:** S10 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, off-white	80 %	-	-	-	**NAD**
Layer 02					
mastic, orange/black	20 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	98 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Job Number: 160007

Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0011 **Sample ID:** S11 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, pebbled, off-white/gray	50 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	80 %	-	-	-	-	20 %

Client Sample ID: 23881.001-0012 **Sample ID:** S12 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, clear	6 %	-	-	-	**NAD**
Layer 02					
vinyl tile, off-white	86 %	-	-	-	**NAD**
Layer 03					
mastic, yellow	8 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0013 **Sample ID:** S13 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, gray	86 %	-	-	-	**NAD**
Layer 02					
mastic, white	5 %	-	-	-	**NAD**
Layer 03					
mastic, brown	9 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0014 **Sample ID:** S14 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with fine compact powder, off-white	12 %	3 %	-	-	**3 %**
Layer 02					
compact chalky material with paper, white	88 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	97 %
Layer 02	12 %	5 %	-	-	-	-	83 %

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Client Sample ID: 23881.001-0015 **Sample ID:** S15 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, brown	75 %	-	-	-	Anthophyllite- Trace	**< 1 %**
Layer 02						
compressed fibers, brown with powder, white	25 %	-	-	-		**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-	Talc	2 %	-	98 %
Layer 02	-	99 %	-	-		-	-	1 %

Client Sample ID: 23881.001-0016 **Sample ID:** S16 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with fine compact powder, off-white	20 %	-	-	-	**NAD**
Layer 02					
fine compact powder, off-white with paper backing, brown	40 %	-	-	-	**NAD**
Layer 03					
compact chalky material with paper, white	40 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	2 %	-	-	-	-	98 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: **23881.001-0017** **Sample ID:** S17 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl sheet, pebbled, tan	50 %	-	-	-			**NAD**
Layer 02							
fibrous backing, gray	50 %	40 %	-	-			**40 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	50 %	-	-	-	-	10 %

Client Sample ID: **23881.001-0018** **Sample ID:** S18 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl sheet, gray/off-white	50 %	-	-	-			**NAD**
Layer 02							
fibrous backing, gray with powder, white	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	8 %	70 %	-	-	-	-	22 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0019 **Sample ID:** S19 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, tan	40 %	-	-	-	**NAD**
Layer 02					
fibrous tar backing, black	45 %	-	-	-	**NAD**
Layer 03					
mastic, brown	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	20 %	-	-	-	-	80 %
Layer 02	-	80 %	-	-	-	-	20 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0020 **Sample ID:** S20 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with fine compact powder, off-white	25 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, white	75 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0021 **Sample ID:** S21 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, light blue	90 %	-	-	-			**NAD**
Layer 02							
mastic, black with coating, gray	10 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	98 %

Client Sample ID: 23881.001-0022 **Sample ID:** S22 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
mastic, orange	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0023 **Sample ID:** S23 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, tan	94 %	Trace	-	-			**< 1 %**
Layer 02							
mastic, black	6 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	98 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0024 **Sample ID:** S24 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compressed fibrous particulate, gray	10 %	-	-	-	**NAD**
Layer 02					
mastic, orange	6 %	-	-	-	**NAD**
Layer 03					
vinyl sheet, tan	38 %	-	-	-	**NAD**
Layer 04					
fibrous backing, gray with mastic, orange	38 %	40 %	-	-	**40 %**
Layer 05					
granular compact powder, gray	8 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	85 %	-	-	-	-	15 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	50 %	-	-	-	-	10 %
Layer 05	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0025 **Sample ID:** S25 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, dark brown	88 %	-	-	-	**NAD**
Layer 02					
mastic, brown	12 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0026 **Sample ID:** S26 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose paint particulate with powder, blue/white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0027 **Sample ID:** S27 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular compact powder, gray with paint, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0028 **Sample ID:** S28 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose granular particulate, gray with paint, pink/blue	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Report Date: 01/11/2016

Client Sample ID: **23881.001-0029** **Sample ID:** S29 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
paint, white with fine compact powder, white	15 %	-	-	-			**NAD**
Layer 02							
compact chalky material with paper, blue	85 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23881.001-0030** **Sample ID:** S30 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
paint, white with paper backing, gray	5 %	-	-	-			**NAD**
Layer 02							
compact chalky material with paper, white	80 %	-	-	-			**NAD**
Layer 03							
fine compact powder, off-white	15 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	98 %

Comments: A gravimetric reduction and point-count is recommeded for this sample.

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0031 **Sample ID:** S31 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
loose fibrous material, yellow with coating, white	35 %	-	-	-			**NAD**
Layer 02							
mastic, brown	65 %	-	-	-	Anthophyllite- Trace		**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	95 %	-	-	-	-	5 %
Layer 02	-	-	-	-	2 %	-	98 %

Client Sample ID: 23881.001-0032 **Sample ID:** S32 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
mastic, brown	50 %	-	-	-	Anthophyllite- Trace		**< 1 %**
Layer 02							
compressed fibrous material, brown with paint, white	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-	Talc	4 %	-	96 %
Layer 02	-	99 %	-	-		-	-	1 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0033 **Sample ID:** S33 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compressed fibers, gray with paint, white	35 %	-	-	-	**NAD**
Layer 02					
mastic, tan	35 %	-	-	-	**NAD**
Layer 03					
fibrous backing, gray/tan	30 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	45 %	45 %	-	-	10 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	95 %	-	-	-	5 %

Client Sample ID: 23881.001-0034 **Sample ID:** S34 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose fibrous powder, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	15 %	25 %	-	-	60 %

Client Sample ID: 23881.001-0035 **Sample ID:** S35 **Date Analyzed:** 01/07/2016
Client Sample Description: Progressive Analysis Group: 1 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fine loose powder, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	15 %	-	-	85 %

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Job Number: 160007

Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0036 **Sample ID:** S36 **Date Analyzed:** 01/07/2016
Client Sample Description: Progressive Analysis Group: 1 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose fine powder, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	15 %	-	-	85 %

Client Sample ID: 23881.001-0037 **Sample ID:** S37 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, yellow	5 %	-	-	-	**NAD**
Layer 02					
fine cementitious material, dark gray	18 %	-	-	-	**NAD**
Layer 03					
vinyl tile, red	75 %	7 %	-	-	**7 %**
Layer 04					
thin mastic, black	2 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	93 %
Layer 04	-	-	-	-	-	100 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0038 **Sample ID:** S38 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous mastic, tan/brown	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	4 %	-	4 %	-	-	92 %

Client Sample ID: 23881.001-0039 **Sample ID:** S39 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, brown	40 %	-	-	-	**NAD**
Layer 02					
thin rubbery material, dark gray with mastic, off-white	60 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0040 **Sample ID:** S40 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, yellow/brown with mastic, black	55 %	Trace	-	-	**< 1 %**
Layer 02					
mastic, black with coating, white	10 %	Trace	-	-	**< 1 %**
Layer 03					
vinyl tile, tan	27 %	8 %	-	-	**8 %**
Layer 04					
mastic, black	8 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	92 %
Layer 04	-	-	-	-	-	-	98 %

Comments: Mastic is too thin for analysis separate from the vinyl tile in layer 01.

Client Sample ID: 23881.001-0041 **Sample ID:** S41 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, tan	8 %	-	-	-	**NAD**
Layer 02					
vinyl tile, red	80 %	6 %	-	-	**6 %**
Layer 03					
mastic, black	12 %	4 %	-	-	**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	94 %
Layer 03	-	-	-	-	-	-	96 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0042 **Sample ID:** S42 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, off-white/tan	90 %	Trace	-	-	**< 1 %**
Layer 02					
mastic, black	10 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Comments: Recommend gravimetric reduction and reanalysis of layer 1 (vinyl tile).

Client Sample ID: 23881.001-0043 **Sample ID:** S43 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compressed fibers, gray with paint, white	85 %	-	-	-	**NAD**
Layer 02					
loose fibrous material, light yellow	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	45 %	45 %	-	-	-	10 %
Layer 02	85 %	10 %	-	-	-	-	5 %

Client Sample ID: 23881.001-0044 **Sample ID:** S44 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	45 %	45 %	-	-	-	10 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0045 **Sample ID:** S45 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with fine compact powder, off-white	8 %	Trace	-	-	**< 1 %**
Layer 02					
compact chalky material with paper, white	92 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	3 %	-	-	-	-	97 %

Client Sample ID: 23881.001-0046 **Sample ID:** S46 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with fine compact powder, white	10 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, white	90 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	3 %	-	-	-	-	97 %

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Job Number: **160007**

Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: **23881.001-0047** **Sample ID:** S47 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Homogeneous					
loose granular material, gray with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **23881.001-0048** **Sample ID:** S48 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
paint, light green with fine compact powder, white	12 %	Trace	-	-	**< 1 %**
Layer 02					
fine compact powder, off-white with paper backing, white	12 %	-	-	-	**NAD**
Layer 03					
thick compact powder, off-white	76 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	Trace	-	-	-	-	-	98 %

Comments: Recommend gravimetric reduction and reanalysis of layers 1 and 3

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Job Number: **160007**

Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: **23881.001-0049** **Sample ID:** S49 **Date Analyzed:** 01/07/2016
Client Sample Description: Progressive Analysis Group: 2 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
paint, white with fine compact powder, off-white	50 %	Trace	-	-	**< 1 %**
Layer 02					
fine compact powder, off-white with paper backing, gray	50 %	Trace	-	-	**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23881.001-0050** **Sample ID:** S50 **Date Analyzed:** 01/07/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Homogeneous					
woven fibers, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	100 %	-	-	-	-	0 %

Client Sample ID: **23881.001-0051** **Sample ID:** S51 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Homogeneous					
hard compact powder, gray	100 %	Trace	-	-	**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.001-0052 **Sample ID:** S52 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, green with fine compact powder, white	15 %	Trace	-	-	**< 1 %**
Layer 02					
compact chalky material with paper, white	85 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

Client Sample ID: 23881.001-0053 **Sample ID:** S53 **Date Analyzed:** 01/07/2016
Client Sample Description: Progressive Analysis Group: 2 **Analyst:** Ryan Brown

Comments: Sample archived; not analyzed per request.

Client Sample ID: 23881.001-0054 **Sample ID:** S54 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, red with fine compact powder, white	15 %	2 %	-	-	**2 %**
Layer 02					
compact chalky material with paper, white	85 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	98 %
Layer 02	-	3 %	-	-	-	-	97 %

Comments: Gravimetric preparation and point-count recommended for this sample.

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Client Sample ID: 23881.001-0055 **Sample ID:** S55 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
hard compact powder, gray/green	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0056 **Sample ID:** S56 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose granular powder, gray with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0057 **Sample ID:** S57 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
mastic, orange with paint, white	10 %	-	-	-			**NAD**
Layer 02							
compressed fibers, brown	75 %	-	-	-			**NAD**
Layer 03							
mastic, tan	15 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	100 %	-	-	-	-	0 %
Layer 03	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.001-0058 **Sample ID:** S58 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, black on wood fibers	100 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	98 %

Client Sample ID: 23881.001-0059 **Sample ID:** S59 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, off-white	92 %	-	-	-	**NAD**
Layer 02					
mastic with particulate, gray	8 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	10 %	-	-	-	-	90 %

Client Sample ID: 23881.001-0060 **Sample ID:** S60 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, dark brown	90 %	-	-	-	**NAD**
Layer 02					
mastic, brown	10 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0061 **Sample ID:** S61 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, tan	88 %	-	-	-	**NAD**
Layer 02					
mastic, tan/off-white with powder, white	12 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0062 **Sample ID:** S62 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
carpet fibers, multicolored	85 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	100 %	-	-	0 %
Layer 02	-	-	-	-	-	-	100 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0063 **Sample ID:** S63 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, tan	90 %	Trace	-	-	**< 1 %**
Layer 02					
mastic, black	10 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	3 %	-	-	-	-	97 %

Client Sample ID: 23881.001-0064 **Sample ID:** S64 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 3 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fibrous tar, black	90 %	-	-	-	**NAD**
Layer 02					
tar particulate, black	6 %	-	-	-	**NAD**
Layer 03					
fine cementitous material, gray	4 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	35 %	-	-	-	-	65 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0065 **Sample ID:** S65 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 3 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
textured fibrous tar, black	30 %	Trace	-	-	**< 1 %**
Layer 02					
fibrous tar, black	25 %	-	-	-	**NAD**
Layer 03					
fibrous tar particulate, black	42 %	2 %	-	-	**2 %**
Layer 04					
granular compact powder, gray	3 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	35 %	-	-	-	-	65 %
Layer 02	-	35 %	-	-	-	-	65 %
Layer 03	15 %	-	-	-	-	-	83 %
Layer 04	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0066 **Sample ID:** S66 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 3 **Analyst:** Ryan Brown

Comments: Sample archived; not analyzed per request.

Client Sample ID: 23881.001-0067 **Sample ID:** S67 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	45 %	45 %	-	-	-		5 %
							Perlite	5 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0068 **Sample ID:** S68 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 2 **Analyst:** Ryan Brown
Comments: Sample archived; not analyzed per request.

Client Sample ID: 23881.001-0069 **Sample ID:** S69 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous material, brown with mastic, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	95 %	-	-	-	-	5 %

Client Sample ID: 23881.001-0070 **Sample ID:** S70 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, blue with fine compact powder, white	35 %	Trace	-	-	**< 1 %**
Layer 02					
fine compact powder, off-white with paper backing, white	35 %	-	-	-	**NAD**
Layer 03					
compact chalky material with paper, white	30 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	4 %	-	-	-	-	96 %

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Client Sample ID: 23881.001-0071 **Sample ID:** S71 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, beige with fine compact powder, off-white	20 %	Trace	-	-	**< 1 %**
Layer 02					
compact chalky material with paper, white	65 %	-	-	-	**NAD**
Layer 03					
textured compact powder, off-white	15 %	Trace	-	-	**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	6 %	-	-	-	-	94 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0072 **Sample ID:** S72 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white	20 %	-	-	-	**NAD**
Layer 02					
mastic, tan	72 %	-	-	-	**NAD**
Layer 03					
loose fibrous material, yellow	8 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	100 %	-	-	-	0 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0073 **Sample ID:** S73 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, tan/off-white	35 %	-	-	-	**NAD**
Layer 02					
hard compact powder, tan with paper backing, brown	65 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	15 %	-	-	-	-	85 %

Client Sample ID: 23881.001-0074 **Sample ID:** S74 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
hard compact powder, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0075 **Sample ID:** S75 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, orange/black on wood fibers	100 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	98 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0076 **Sample ID:** S76 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 4 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
fibrous tar, black	100 %	-	-	-			NAD

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	45 %	-	-	-	-	55 %

Client Sample ID: 23881.001-0077 **Sample ID:** S77 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl sheet, pebbled, tan	55 %	-	-	-			NAD
Layer 02							
fibrous backing, gray with mastic, orange	45 %	-	-	-			NAD

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	80 %	-	-	-	-	20 %

Client Sample ID: 23881.001-0078 **Sample ID:** S78 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
hard compact powder, gray/green	100 %	-	-	-			NAD

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Report Date: 01/11/2016

Client Sample ID: **23881.001-0079** **Sample ID:** S79 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
mastic, brown	55 %	-	-	-			**NAD**
Layer 02							
compressed fibers, gray	45 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	95 %	-	-	-	5 %

Client Sample ID: **23881.001-0080** **Sample ID:** S80 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 4 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
fibrous tar material, black	75 %	Trace	-	-			**< 1 %**
Layer 02							
vinyl particulate, tan with fibrous backing, black	25 %	3 %	-	-			**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	75 %	-	-	-	-	25 %
Layer 02	-	-	-	-	-	-	97 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0081 **Sample ID:** S81 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, pebbled, tan	35 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray with mastic, yellow	35 %	-	-	-	**NAD**
Layer 03					
fibrous tar backing, black	30 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	80 %	-	-	-	-	20 %
Layer 03	-	80 %	-	-	-	-	20 %

Client Sample ID: 23881.001-0082 **Sample ID:** S82 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous material, dark brown	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	90 %	-	-	-	-	10 %

Client Sample ID: 23881.001-0083 **Sample ID:** S83 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, tan/black on wood fibers	100 %	Trace	-	-	**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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BULK SAMPLE ASBESTOS ANALYSIS

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Job Number: 160007

Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0084 **Sample ID:** S84 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 4 **Analyst:** Ryan Brown
Comments: Sample archived; not analyzed per request.

Client Sample ID: 23881.001-0085 **Sample ID:** S85 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl sheet, pebbled, tan	65 %	-	-	-			**NAD**
Layer 02							
fibrous backing, gray	35 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	75 %	-	-	-	-	25 %

Client Sample ID: 23881.001-0086 **Sample ID:** S86 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, tan/gray	95 %	7 %	-	-			**7 %**
Layer 02							
mastic, black	5 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	93 %
Layer 02	-	-	-	-	-	-	98 %

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Report Date: 01/11/2016

Client Sample ID: **23881.001-0087** **Sample ID:** S87 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
paint, green with paper backing, brown	5 %	-	-	-			**NAD**
Layer 02							
compact chalky material with paper, white	95 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

Client Sample ID: **23881.001-0088** **Sample ID:** S88 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
woven material with coating, blue	35 %	-	-	-			**NAD**
Layer 02							
woven material with paper backing, brown	65 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	50 %	-	-	-	-	50 %
Layer 02	-	80 %	-	-	-	-	20 %

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Report Date: 01/11/2016

Client Sample ID: **23881.001-0089** **Sample ID:** S89 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, dark brown	70 %	-	-	-			**NAD**
Layer 02							
mastic, white	5 %	-	-	-			**NAD**
Layer 03							
mastic, brown	25 %	-	-	-	Anthophyllite- Trace		**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Layer 03	-	-	-	-	Talc	3 %	-	97 %

Client Sample ID: **23881.001-0090** **Sample ID:** S90 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
hard compact powder, gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
	-	-	-	-		-	-	100 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0091 **Sample ID:** S91 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, orange	6 %	-	-	-	**NAD**
Layer 02					
vinyl tile, gray	68 %	5 %	-	-	**5 %**
Layer 03					
mastic, black	6 %	2 %	-	-	**2 %**
Layer 04					
fibrous tar backing, black	20 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	95 %
Layer 03	-	-	-	-	-	-	98 %
Layer 04	-	80 %	-	-	-	-	20 %

Client Sample ID: 23881.001-0092 **Sample ID:** S92 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, orange	12 %	-	-	-	**NAD**
Layer 02					
vinyl tile, green	80 %	10 %	-	-	**10 %**
Layer 03					
mastic, black	8 %	Trace	-	-	**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	90 %
Layer 03	-	-	-	-	-	-	100 %

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Report Date: 01/11/2016

Client Sample ID: **23881.001-0093** **Sample ID:** S93 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
hard compact powder, white	12 %	-	-	-			**NAD**
Layer 02							
granular compact powder, gray	88 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	Trace	-	-	-	-	100 %

Client Sample ID: **23881.001-0094** **Sample ID:** S94 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl tile, off-white	20 %	-	-	-			**NAD**
Layer 02							
fine compact powder, gray	20 %	-	-	-			**NAD**
Layer 03							
fibrous tar backing, black with mastic, brown	60 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	80 %	-	-	-	-	20 %

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Client Sample ID: 23881.001-0095 **Sample ID:** S95 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white	25 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, white	75 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0096 **Sample ID:** S96 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fine compact powder, off-white with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	2 %	-	-	-	-	98 %

Client Sample ID: 23881.001-0097 **Sample ID:** S97 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose fibrous material, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	99 %	-	-	-	1 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0098 **Sample ID:** S98 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
mastic, brown	35 %	-	-	-			**NAD**
Layer 02							
compressed fibers, brown	65 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	100 %	-	-	-	-	0 %

Client Sample ID: 23881.001-0099 **Sample ID:** S99 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose flaky material, gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	15 %	-	-	-	-	85 %

Client Sample ID: 23881.001-0100 **Sample ID:** S100 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
mastic, black	100 %	5 %	-	-			**5 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	95 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0101 **Sample ID:** S101 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular compact powder, dark gray/silver	100 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	98 %

Client Sample ID: 23881.001-0102 **Sample ID:** S102 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, yellow with coating, tan/blue	12 %	-	-	-	**NAD**
Layer 02					
granular compact powder, gray	88 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0103 **Sample ID:** S103 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous material, dark brown	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	80 %	-	-	-	-	20 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: 23881.001-0104 **Sample ID:** S104 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
compressed fibers, brown with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	99 %	-	-	-	-	1 %

Client Sample ID: 23881.001-0105 **Sample ID:** S105 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 5 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose fibrous powder, gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	15 %	-	20 %	-	-	-	65 %

Client Sample ID: 23881.001-0106 **Sample ID:** S106 **Date Analyzed:** 01/08/2016
Client Sample Description: Progressive Analysis Group: 5 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose fibrous powder, gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	15 %	3 %	20 %	-	-	-	62 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0107 **Sample ID:** S107 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact fibrous powder, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	15 %	2 %	20 %	-	-	63 %

Client Sample ID: 23881.001-0108 **Sample ID:** S108 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
ceramic tile, red/gray	88 %	-	-	-	**NAD**
Layer 02					
fine cementitious material, red	6 %	-	-	-	**NAD**
Layer 03					
hard compact powder, white	6 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	100 %

Client Sample ID: 23881.001-0109 **Sample ID:** S109 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	25 %	5 %	25 %	-	-	45 %

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Report Date: 01/11/2016

Client Sample ID: 23881.001-0110 **Sample ID:** S110 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, pebbled, tan	75 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray with mastic, yellow	25 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	75 %	-	-	-	25 %

Client Sample ID: 23881.001-0111 **Sample ID:** S111 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular compact powder, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

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Report Number: 160007R01
Report Date: 01/11/2016

Client Sample ID: **23881.001-0112** **Sample ID:** S112 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
granular compact powder, gray/white	25 %	-	-	-			**NAD**
Layer 02							
mastic, tan	30 %	-	-	-			**NAD**
Layer 03							
compressed fibers, brown	45 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	100 %	-	-	-	-	0 %

Client Sample ID: **23881.001-0113** **Sample ID:** S113 **Date Analyzed:** 01/08/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
textured paint, blue/white	50 %	-	-	-			**NAD**
Layer 02							
granular compact powder, tan	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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BULK SAMPLE ASBESTOS ANALYSIS

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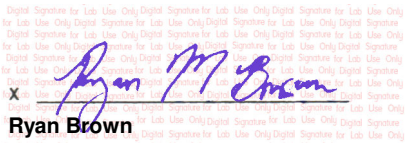
Job Number: **160007**

Report Number: 160007R01
Report Date: 01/11/2016

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart E, Appendix A, PLM.

Layered samples are considered non-homogeneous."Misc" is miscellaneous. "NAD" is No Asbestos Detected.
Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
Small diameter fibers such as those found in vinyl floor tiles, may not be detected by PLM.
Asbestos detection interferences may result from material binders.
Qualitative and quantitative TEM analysis may be recommended for difficult samples.
Quantitative analysis by PLM point count or TEM is recommended for samples testing at < or = to 1% asbestos.
The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:



x _____

Ryan Brown
Analyst

NVLAP LAB CODE 200741-0

160007
p 1/6

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TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23881.001 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: January 04, 2016

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

R Conroy 2:35 pm
Name

Authorized Signature

4.16
1.5.16
Date

RECEIVER

Date Received: 1/4/15 2:40

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Alex Johnson
Name

Authorized Signature

1/4/15
Date

Sender's ID No.	Brief Description	Receiver's ID No.
23881.001-0001		
23881.001-0002		
23881.001-0003		
23881.001-0004		
23881.001-0005		
23881.001-0006		
23881.001-0007		
23881.001-0008		
23881.001-0009		
23881.001-0010		
23881.001-0011		
23881.001-0012		
23881.001-0013		
23881.001-0014		

160007
p 3 of 6

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TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.001-0015		
23881.001-0016		
23881.001-0017		
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23881.001-0029		
23881.001-0030		
23881.001-0031		
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23881.001-0033		
23881.001-0034		
23881.001-0035 }	**Progressive Analysis Group:** 1	
23881.001-0036 }	" 1	
23881.001-0037		
23881.001-0038		
23881.001-0039		
23881.001-0040		

160007
P 3/6

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TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.001-0041		
23881.001-0042		
23881.001-0043		
23881.001-0044		
23881.001-0045		
23881.001-0046		
23881.001-0047		
23881.001-0048		
23881.001-0049 }	**Progressive Analysis Group: 2**	
23881.001-0050		
23881.001-0051		
23881.001-0052		
23881.001-0053 }	**Progressive Analysis Group: 2**	
23881.001-0054		
23881.001-0055		
23881.001-0056		
23881.001-0057		
23881.001-0058		
23881.001-0059		
23881.001-0060		
23881.001-0061		
23881.001-0062		
23881.001-0063		
23881.001-0064 }	**Progressive Analysis Group: 3**	
23881.001-0065 }	" **3**	
23881.001-0066 }	" **3**	

160007
P 4/6

PBS Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.001-0067		
23881.001-0068 }	**Progressive Analysis Group: 2**	
23881.001-0069		
23881.001-0070		
23881.001-0071		
23881.001-0072		
23881.001-0073		
23881.001-0074		
23881.001-0075		
23881.001-0076 }	**Progressive Analysis Group: 4**	
23881.001-0077		
23881.001-0078		
23881.001-0079		
23881.001-0080 }	**Progressive Analysis Group: 4**	
23881.001-0081		
23881.001-0082		
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23881.001-0084 }	**Progressive Analysis Group: 4**	
23881.001-0085		
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23881.001-0089		
23881.001-0090		
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23881.001-0092		

160007
P 5/6

PBS Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.001-0093		
23881.001-0094		
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23881.001-0099		
23881.001-0100		
23881.001-0101		
23881.001-0102		
23881.001-0103		
23881.001-0104		
23881.001-0105 }	**Progressive Analysis Group: 5**	
23881.001-0106 }	" 5	
23881.001-0107		
23881.001-0108		
23881.001-0109		
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23881.001-0111		
23881.001-0112		
23881.001-0113		

160007
p 6/6

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 113 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.
Request verbal results by: _____ AM/PM _____Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: **5 Day**

SPECIAL INSTRUCTIONS:

Please note the progressive analysis groups defined above.

CB

RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

LABORATORY REPORT

PBS Engineering & Environmental
4412 Southwest Corbett Ave.
Portland, OR 97239

Attn: Raegan Conroy
Phone: 503-248-1939
Fax: 503-248-0223
Email: raegan.conroy@pbsenv.com

RJ Lee Group Job No.: PA050120160011
Samples Received: January 5, 2016
Report Date: January 11, 2016
Client Project: 23881.001 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 7000B-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB23881.001-1001	PA050120160011-001	NP	Lead	0.17	1700	0.0094	94	01/08/2016	AN
LB23881.001-1002	PA050120160011-002	NP	Lead	0.042	420	0.0087	87	01/08/2016	AN
LB23881.001-1003	PA050120160011-003	NP	Lead	< 0.0099	< 99	0.0099	99	01/08/2016	AN
LB23881.001-1004	PA050120160011-004	NP	Lead	0.30	3000	0.0087	87	01/08/2016	AN
LB23881.001-1005	PA050120160011-005	NP	Lead	0.34	3400	0.0100	100	01/08/2016	AN
LB23881.001-1006	PA050120160011-006	NP	Lead	0.11	1100	0.0094	94	01/08/2016	AN
LB23881.001-1007	PA050120160011-007	NP	Lead	0.33	3300	0.011	110	01/08/2016	AN
LB23881.001-1008	PA050120160011-008	NP	Lead	0.041	410	0.0100	100	01/08/2016	AN
LB23881.001-1009	PA050120160011-009	NP	Lead	21	210000	0.0094	94	01/08/2016	AN
LB23881.001-1010	PA050120160011-010	NP	Lead	0.11	1100	0.0096	96	01/08/2016	AN
LB23881.001-1011	PA050120160011-011	NP	Lead	0.014	140	0.0099	99	01/08/2016	AN
LB23881.001-1012	PA050120160011-012	NP	Lead	0.15	1500	0.0094	94	01/08/2016	AN
LB23881.001-1013	PA050120160011-013	NP	Lead	0.12	1200	0.0096	96	01/08/2016	AN
LB23881.001-1014	PA050120160011-014	NP	Lead	0.32	3200	0.010	100	01/08/2016	AN
LB23881.001-1015	PA050120160011-015	NP	Lead	16	160000	0.0095	95	01/08/2016	AN
LB23881.001-1016	PA050120160011-016	NP	Lead	< 0.0088	< 88	0.0088	88	01/08/2016	AN

Comments:

Report Qualifiers (Q):

P *: PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)*
N *: NY ELAP Accredited (NY ELAP Lab Code 10884)*
C *: CA ELAP Accredited (CA ELAP Certificate 1970)*
A *: AIHA-LAP, LLC Accredited (Lab ID 100364)*
E = Value above highest calibration standard
J = Value below lowest calibration standard but above MDL (Method Detection Limit)
L = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery outside accepted recovery limits
H = Holding times for preparation or analysis exceeded
B = Analyte detected in the associated Method Blank
S = Spike Recovery outside accepted limits
R = RPD (relative percent difference) outside accepted limits
D = RL (reporting limit verification) outside accepted limits
NP = Not Provided
— : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of accreditations

Philip Grindle
Laboratory Supervisor

RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

LABORATORY REPORT

PBS Engineering & Environmental
4412 Southwest Corbett Ave.
Portland, OR 97239

Attn: Raegan Conroy
Phone: 503-248-1939
Fax: 503-248-0223
Email: raegan.conroy@pbsenv.com

RJ Lee Group Job No.: PA050120160011
Samples Received: January 5, 2016
Report Date: January 11, 2016
Client Project: 23881.001 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 7000B-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		

This laboratory operates in accord with ISO 17025:2005 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to http://www.rjlg.com/about-us/accreditations/ for more information and current status. Unless it is specifically stated otherwise (under the Q column using the appropriate accrediting agency qualifier(s)) the work contained in this report is performed under RJLG's General Quality System requirements and is not part of any scope of accreditations. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

Unless otherwise noted (either in the comments section of the report and/or with the appropiate qualifiers under the report qualifiers (Q) column) the following apply: (a) Samples were received in good condition, (b) All QC samples are within acceptable established limits, (c) All samples designated as NELAP meet the requirements of the NELAC standard; if not applicable qualifiers will be used to designate the non-compliance and (d) Results have not been blank corrected. Quality Control data is available upon request.

Philip Grindle

Philip Grindle
Laboratory Supervisor

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 23881.001 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: January 04, 2016

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Raegan Conroy
Name

1-4-16
Authorized Signature **Date**

RECEIVER

Date Received: 01-05-16 11:00

Company: R.J. Lee Group
Address: 350 Hochberg Road
Monroeville, PA 15146
724-325-1776

Tasha F.
Name

01-05-16
Authorized Signature **Date**

Sender's ID No.	Brief Description	Receiver's ID No.
LB23881.001-1001		
LB23881.001-1002		
LB23881.001-1003		
LB23881.001-1004		
LB23881.001-1005		
LB23881.001-1006		
LB23881.001-1007		
LB23881.001-1008		
LB23881.001-1009		
LB23881.001-1010		
LB23881.001-1011		
LB23881.001-1012		
LB23881.001-1013		
LB23881.001-1014		
LB23881.001-1015		
LB23881.001-1016		

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TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

ANALYSIS REQUESTED:

LEAD:
- [x] Paint
- [ ] Wipe
- [ ] Soil/Misc.
- [ ] Air
- [ ] TCLP

Please analyze the enclosed 16 sample(s) for LEAD content using Atomic Absorption Method. PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

5 Day

SPECIAL INSTRUCTIONS:

CB

THIS IS TO CERTIFY THAT

CHRIS BOYCE

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR / MANAGEMENT PLANNER REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 01/08/2016

Course Location: Portland, OR

Certificate: IMR-16-4464A

PBS | Engineering + Environmental

Expiration Date: 01/08/2017

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

For verification of the authenticity of this certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

Greg Baker, Instructor

FINDINGS OF FACT
FOR EXEMPTION FROM COMPETITIVE BIDDING AND
THE USE OF THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR
(CM/GC) METHOD OF CONTRACTING FOR REYNOLDS SCHOOL DISTRICT #7
THREE NEW REPLACEMENT ELEMENTARY SCHOOLS

1. General

ORS 279C.335(2) permits a local contract review board to exempt contracts from traditional competitive bidding upon approval of findings of fact showing that an alternative contracting process is unlikely to encourage favoritism or diminish competition and that the process will result in substantial cost savings to the School District. The Reynolds School District ("District"), through its School Board, acts as the Local Contract Review Board ("LCRB") for the District.

ORS 279C.400 – ORS 279C.410 describe the Request for Proposals method of solicitation as an alternative to traditional competitive bidding. Pursuant to ORS 279C.410(8), a public Agency using the Request for Proposals method may award a contract to the responsible proposer "whose proposal is determined in writing to be the most advantageous to the contracting agency based on the evaluation factors set forth in the request for proposals and, when applicable, the outcome of any negotiations authorized by the request for proposals."

ORS 279C.330 defines "Findings" and identifies specific information to be provided as a part of the District justification. Under ORS 279C.335(5) a public hearing must be held before the findings are adopted, allowing an opportunity for interested parties to comment on the draft findings.

PURPOSE OF THESE FINDINGS: The Reynolds School District will hold a public hearing as required by ORS 279C.335 and makes the following findings with respect to the issue of whether three new replacement Elementary School projects ("Projects"), as defined herein, should be exempt from competitive bidding. The District seeks to utilize the CM/GC method of alternative method of contracting. The Findings of Facts apply to the CM/GC method of public improvement Projects described below, in accordance with ORS 279C.335(2).

2. Background

Reynolds School District serves 11,722 students in 18 schools.

After a two-year facilities study, the facilities master plan was adopted in October 2014. A community task force then prioritized the Projects. The bond measure would pay for $125 million of the Projects. The tax rate is estimated to be the same as the 2014 tax rate.

The District plans to replace three of its oldest schools on their current properties. Fairview and Troutdale elementary schools are 88 years old and Wilkes is 101 years old. According to the

facilities study, the high school is over student capacity by 750 students. Proceeds from the bond would add classroom space, renovate science labs, and make technology and security improvements at all schools.

Specifically, this bond measure would allow the District to pay for capital construction and improvements to schools:

- Constructing, furnishing and equipping three new elementary school buildings on their present sites of Fairview, Troutdale and Wilkes, including demolition and related site improvements. This will include anticipated off-site improvements as well as design and construction of new play areas and green spaces.

The nature of these Projects will require strategic planning, complicated scheduling, and critical coordination of construction and target value design integrated with necessary safety measures. These Projects will be at a higher risk and have a high level of technical complexity due to the amount of renovation work, will be governed by significant schedule constraints with security and safety concerning children occupying the sites during much of the construction, will require complex phasing, and will contain budget limitations that require close monitoring of these Projects' budget. Therefore, it becomes critical to maintain schedule, budget, safe and secure sites for these Projects.

In consideration of these facts, an alternate method of construction of these public improvements should be considered. Therefore, the following findings support an exemption from competitive bidding and the use of the Request for Proposal for Construction Manager/General Contractor services as an alternative method of construction contracting.

FINDINGS OF FACT

SUMMARY FINDINGS

Use of the CM/GC process for the "Projects" complies with the criteria outlined in ORS 279C.335(2):

1. It is unlikely the exemption will encourage favoritism or substantially diminish competition. The selection process will be fair and open to all interested proposers as established within the findings below.

2. The exemption will result in substantial cost savings to the District. The District has found several areas in which substantial cost savings to the District will be achieved. Also, value will be added to the Projects that could not otherwise be obtained.

SPECIFIC FINDINGS which substantiate the summary findings are as follows:

1. **The CM/GC will be selected through a competitive process in accordance with the qualifications-based selection process authorized by the District. Therefore, it is unlikely that the awarding of the construction contract for the Projects will encourage favoritism or substantially diminish competition. This finding is supported by the following:**

   A. **SOLICITATION PROCESS:** Pursuant to ORS 279C.360, the CM/GC solicitation will be advertised at least once in the Daily Journal of Commerce, and in as many additional issues of publication as the District may determine.

   B. **FULL DISCLOSURE:** To ensure full disclosure of all information, the Request for Proposals solicitation package will include:

      a. Detailed Description of the Projects
      b. Contractual Terms and Conditions
      c. Selection Process
      d. Evaluation Criteria
      e. Role of Evaluation Committee
      f. Provisions for Comments
      g. Complaint Process and Remedies Available

   C. **COMPETITION:** As outlined below, the District will follow processes which maintain competition in the procurement of a CM/GC.

      a. The District anticipates that competition for this contract will be similar to that experienced in other projects of this type. The competition will remain open to all qualifying proposers.

      b. The District has been communicating with the construction contracting community as well as the engineering consulting community about the CM/GC contracting method.

      c. The evaluation and solicitation process employed will be open and impartial. Selection will be made on the basis of final proposal scores derived from price and other components, which expand the ground of competition beyond price alone to include experience, quality, innovation factors, etc.

      d. The competitive process used to award subcontracts for all competitively bid construction work will be specified in the CM/GC contract and will be monitored by the District. The District will designate in the contract the proposed percentage of construction work that must be subcontracted and may not be self performed by the CM/GC.

D. SELECTION PROCESS: Other highlights of the selection process will include:

a. A pre-proposal vendor conference will be announced and held. This conference will be open to all interested parties. During this pre-proposal conference, as well as any time prior to ten (10) days before the close of the solicitation, interested parties will be able to ask questions, request clarifications and suggest changes in the solicitation documents if such parties believe that the terms and conditions of the solicitation are unclear, inconsistent with industry standards, or unfair and unnecessarily restrictive of competition.

b. The evaluation process will determine whether a proposal meets the screening requirements of the RFP, and to what extent. The following process will be used:

- Proposals will be evaluated for completeness and compliance with the screening requirements of the RFP. Those proposals that are materially incomplete or non-responsive will be rejected.

- Proposals considered complete and responsive will be evaluated to determine if they meet and comply with the qualifying criteria of the RFP. If a proposal is unclear, the proposer may be asked to provide written clarification. Those proposals that do not meet all requirements will be rejected.

- Proposals will independently be scored by the voting members of the Evaluation Committee. Scores will then be combined and assigned to the proposals.

- The Evaluation Committee will convene to select from the highest-scoring proposers, a finalist(s) for formal interviews.

- The Evaluation Committee will conduct the interviews.

- The Evaluation Committee will use the interview to confirm the scoring of the proposal and to clarify any questions. Based upon the revised scoring, the Evaluation Committee will rank the proposers, and provide an award recommendation.

- The Reynolds School District will negotiate a contract with the top-ranked firm. If an agreement cannot be reached, the District will have the option to enter into an agreement with the second-ranked firm, and so forth.

c. Competing proposers will be notified in writing of the selection of the apparent successful proposal and will be given seven (7) calendar days after receipt of the notice to review the RFP file and evaluation report at the District Office. Any questions, concerns, or protests about the selection process will be subject to the requirements of the OAR 137-0 49-0450, must be in writing, and must be delivered to the Reynolds School District within seven (7) calendar days after receipt of the

selection notice. No protest of the award selection shall be considered after this time period.

d. The contract achieved through this process will require the CM/GC to use an open competitive selection process to bid all components of the job. The CM/GC's general conditions and fee makes up 10-15% of the total cost, and will be evaluated as one of the scoring criteria. General Conditions, which include supervision, bonding, insurance, and mobilization, must be within the industry standard range of approximately 10%. The CM/GC's fee must be within the industry standard range of 3-5%. Since these amounts will be scored as part of the competitive RFP process, the entire dollar value of the Projects will be awarded through open competitive processes, at either the general contractor or subcontractor level.

2. FINDING: The awarding of construction contract(s) for the Projects using the CM/GC method will likely result in substantial cost savings to the District. This finding is supported by the following information required by ORS 279C.335(2)(b) and ORS 279C.330.

A. OPERATIONAL, BUDGET, FINANCIAL DATA

a. BUDGET: The District has a fixed budget available for the "Projects" that cannot be exceeded. The completion date cannot be exceeded. Early reliable pricing provided by the CM/GC or other alternatively contracted contractor during the design phase will reduce the potential for time delays due to later discovery of higher-than-anticipated costs and consequent changes of direction.

b. LONG TERM COSTS: The Projects will require expertise regarding the constructability and long-term cost/benefit analysis of innovative design. That knowledge is best obtained directly from the construction industry. Many decisions will be required during the design process that will encompass immediate feedback on constructability and pricing. Under the traditional design-bid-build process, there is a high risk of increased change orders and schedule impacts for Projects of this size and complexity. Since there are significant costs associated with delay, time is of the essence. The CM/GC process will assist in providing a scope of work and constructible design that best meet the requirements of the Projects with significantly lower risk to the Projects' costs. Involving the CM/GC during design will allow Projects' risks to be addressed early and teamwork between the District, the design consultant, and the construction contractor (CM/GC) to minimize those risks.

c. FEWER CHANGE ORDERS: When the CM/GC participates in the design process, fewer change orders occur during project construction. This is due to the CM/GC's better understanding of the owner's needs and the architect's design intent. As a result, the Projects are more likely to be completed on time and within budget. In addition, fewer change orders reduce the administrative costs of project management for both the District and the contractor.

d. GMP CHANGE ORDERS COST LESS: The fewer CM/GC change orders discussed above will be processed at a lower cost under the GMP. The design-bid-build method typically results in the contractor charging 15% markup on construction change orders. The GMP method applies lower predetermined markups. The experience of the industry has been that the markup is in the range of 3-5%.

e. SAVINGS: Under the GMP method the District will enjoy the full savings, if actual costs are below the GMP. When the CM/GC completes the Projects, any savings between the GMP and the actual cost accrue to the District.

f. CONTRACTOR'S FEE IS LESS: Contracts with CM/GC's are designed to create a better working relationship with the contractor. As a consequence, the overhead and profit fee is generally in the 3-5% range, and the contractors indicate this is slightly lower than the fee anticipated on similar design-bid-build contracts.

g. FUNDING SOURCE: The Projects will be funded by the sale of general obligation bonds.

B. PUBLIC BENEFITS

a. TIME SAVINGS: Use of CM/GC or other alternative contracting methods will allow construction work to commence relatively rapidly on some portions of the work while design continues on the remaining portions. This will shorten the overall duration of the construction and provide for completion of the Projects by the due date. It becomes critical to maintain both the schedule and budget of these Projects that the coordination of the District personnel and their facilities be fully evaluated and understood, and that construction work proceeds throughout with all necessary care given to the safety security of the District's students and personnel.

b. COST SAVINGS: The Projects will benefit from the active involvement of a CM/GC contractor or other alternative contracting method during the design process in the following ways:

- The contractor's input regarding the constructability and cost-effectiveness of various alternatives will guide the design toward the most economic choices.

- Consideration of the specific equipment available to the contractor will allow the designer to implement solutions that utilize the capacity of that equipment.

- The contractor will be able to provide current and reliable information regarding the cost of materials that are experiencing price volatility and the availability of scarce materials.

- The contractor will also be able to order materials while design is being completed in order to avoid inflationary price increases and provide the lead-time that may be required for scarce materials.

c. GUARANTEED MAXIMUM PRICE (GMP) ESTABLISHES A MAXIMUM PRICE PRIOR TO COMPLETION OF DOCUMENTS: The CM/GC will be able to obtain a complete understanding of the District's needs, the architect's design intent, the scope of the Projects, and the operational needs of the individual School Projects by participating in the construction document phase. With the CM/GC participating in this phase they will be able to offer suggestions for improvement and make suggestions that will reduce costs. With the benefit of this knowledge, the CM/GC will also be able to guarantee a maximum price to be paid by the District for constructing the Projects.

C. **VALUE ENGINEERING**

a. **WITH THE DESIGN-BID-BUILD PROCESS:** If the District were to utilize the design-bid-build method, the contractor would not participate in this evaluation. In conducting value engineering under the design-bid-build approach, a value engineering consultant is hired to participate in the design and cost evaluation process. This process adds extra costs and administrative complications, without providing the same benefits of early contractor participation.

b. **WITH CM/GC:** The CM/GC process offers a unique opportunity for value engineering that is not possible through the design-bid-build process. An essential part of each construction project is the value engineering evaluation. Value engineering is the means used to determine the best project design that meets the needs and priorities of the owner, within the owner's budget. Value engineering is done most effectively by a team consisting of the owner, architect, consultants, and the contractor. When the contractor participates, the team can render the most comprehensive evaluation of all factors that affect the cost, quality, and schedule of the project.

The CM/GC method has the benefit of:

-the ability to set the schedule;
-the ability to sequence work; and
-commitment from the contractor to implement the design within the schedule and budget.

Through integrated participation, a project's scope and design evolve that has greater value for the owner, and is not likely to be the same project created by the design-bid-build method.

D. **SPECIALIZED EXPERTISE:** Early selection of the CM/GC creates more informed, better quality decision making by the project's construction team. A more efficient construction team saves the District money.

The construction Projects are highly complex because they involve significant construction over a short mandated period of construction. Use of a CM/GC in conjunction with the team approach will result in better coordinated projects, speedy completion, and minimize disruption to operations. The CM/GC clarifies several critical variables valuable to the

Projects' design. The CM/GC: guarantees the maximum price (GMP) to complete the Projects; determines the construction schedule; establishes the sequence of work; is contractually bound to implement the final Projects' design within the GMP; and participates as an essential member of the Projects' design and construction team.

Several benefits of participation by the CM/GC on these Projects will be realized: developing the design documents to reflect the best work plan that accommodates the District, the design team, and contractor; the best grouping of the bid packages that will help insure better trade coverage; the most efficient construction staging area on 2015 Bond Projects; the most cost effective route through the campus and buildings for the various utilities; and to help in adjusting the work plan when the needs change along the way. This component cannot be addressed by the usual design/bid/build method of construction because the usual method is skewed towards the lowest bidder.

E. PUBLIC SAFETY: All work must be coordinated to avoid safety and security risks to the students, employees, and the general public and to ensure efficiency in construction. The coordination between the District, designer and the CM/GC will assure coordination of work and consideration for the safety of vehicular and pedestrian paths crossed by the Projects. In addition, CM/GC contracting of the Projects will ensure that public safety and security is being effectively managed in a "fast track" mode to minimize delays.

F. MARKET CONDITIONS: As well as the multitude of construction market factors that exist today in Oregon (e.g., competition of other projects, environmental issues that limit construction materials, variable bid market, high unemployment, etc.), the difficulty in establishing the best work sequence complicates our ability therefore, to accurately estimate the cost of these Projects. The economy today makes it necessary for many contractors to bid for jobs for which they might not be qualified. Alternative contracting methods will be more likely to result in a more experienced and better suited contractor for these particular Projects than the usual competitive procurement. The complexities which need to be addressed to accomplish the tasks are not well served by the usual competitive procurement. The lowest bidder may not be the best suited for these particular Projects.

G. **TECHNICAL COMPLEXITY:** Technical expertise will be required for environmental management, quality management, scheduling, estimating, meeting sustainable facilities standards and guidelines, and ensuring energy efficiency. The complexity and scheduling issues discussed in the Background section above will require special expertise. However, the Projects will draw upon existing skills and capabilities available in the construction community, as the Projects present overall challenges similar to those faced on many public works projects. Specialized skills will be required of the CM/GC to negotiate and price multiple options and schedule complex tasks. A high level of coordination among the District and all the design and construction entities is required and facilitated by the CM/GC approach.

H. **FUNDING SOURCES:** The District intends to fund the Projects with the sale of general obligation bonds providing the available funds of $125,000,000, as provided from the 2015 Bond Election last May.

RESOLUTION NO. LCRB 2015-2016-002

RESOLUTION GRANTING EXEMPTION FROM COMPETITIVE BIDDING FOR CONSTRUCTION OF 2015 BOND PROJECTS BY MEANS OF A CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND AUTHORIZING SELECTION BY REQUEST FOR PROPOSALS

WHEREAS, the Reynolds School District ("District") acts as the local contract review board for the District, and in that capacity has authority to exempt certain contracts from the competitive bidding requirements of ORS Chapter 279C; and

WHEREAS, ORS 279C.335(2) provides a process for exempting certain contracts from competitive bidding and authorizes the selection of a contractor through the request for proposal ("RFP") process; and

WHEREAS, draft findings ("Findings") addressing competition, operational, budget and financial data, public benefits, value engineering, specialized expertise required, market conditions, technical complexity, public safety and funding sources recommended by the District were available 14 days in advance of the public hearing on this Resolution; and

WHEREAS, the District determines that the **Three New Replacement Elementary School Projects** should be constructed by a CM/GC. NOW THEREFORE,

The District finds as follows:

1. The District adopts the Findings set forth in Exhibit A to this Resolution.

2. The exemption of the CM/GC contract from competitive bidding will promote competition and will not encourage favoritism, because the CM/GC will be chosen by the request for proposals process, and the major portion of the construction work will be performed by subcontractors chosen by competitive bidding.

3. The exemption of the CM/GC contract from competitive bidding is likely to result in substantial cost savings to the District, for the reasons set forth in the adopted Findings.

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NOW, THEREFORE, IT IS HEREBY RESOLVED by the District as follows:

The contract for construction of **Three New Replacement Elementary Schools** by a Construction Manager/General Contractor for a Guaranteed Maximum Price is exempt from competitive bidding, and the CM/GC shall be selected by the Request for Proposal method in accordance with the District's public contracting rules and the process described in the Findings.

This Resolution shall take effect on December 9, 2015.

ADOPTED this 9 day of December, 2015, by the Reynolds School District Board of Directors acting as the Local Contract Review Board.

Dane Nickerson, Chair
Reynolds School District

ATTEST:

Dr. Linda Florence, Superintendent

Reynolds School District (RSD) Local and Diverse Community Engagement Program

BACKGROUND:

The RSD 2015 Bond Projects provides $125M of community investment for capital construction to replace 3 elementary schools, repair/renovate the high school and enhance security / access controls across the district. This exceptional investment also provides a special opportunity to intentionally encourage and promote local and diverse community elements with the performance of the bond work. With development and implementation of this program, project leadership can intentionally connect and benefit local and historically underutilized firms (target firms) / workforce, students / teachers and other stakeholders to RSD 2015 Bond Projects while optimizing community impact and achieving project value. The below provides a framework for expanded community building through the current design and construction processes.

This program seeks to optimize community impact connected to bond work completion.

Holistic Solutions through Intentional Actions.

VISION:

RSD Local & Diverse Community Engagement Program shall positively impact all community stakeholders while modeling successful actions for others, including future RSD work, and establishing RSD as an area leader.

MISSION:

RSD Local & Diverse Community Engagement Program effectively activates Students, Teachers, Neighbors, Area Businesses (especially local / MWESB) and other Stakeholders to optimize project bond spends for continual progress towards district and community goals setting up current and next generation success.

GUIDING PRINCIPLES:

1. Driven by vision and mission
2. Supports RSD Values: Community Involvement, Engagement, Equity, Excellence, Expectations, Relationships, Relevance, Resilience, Respect, Responsibility & Responsiveness
3. Mindful of RSD culture, history, and traditions
4. Open, inclusive and collaborative
5. Complement project goals of schedule, budget, quality and safety

VALUE PROPOSITION:

The RSD Local & Diverse Community Engagement Program provides exceptional opportunity to positively impact community and create sustainable successes while leveraging existing resources and enabling new partnerships both internal and external to RSD. In addition to complementing the District student focused mission, the program extends benefit across stakeholder sectors transforming the bond work into a real-time, beacon of hope for excellence, equity, and success.

GOALS:

1) <u>Business Equity:</u>
   Enhance M/WESB equity and utilization to well exceed 25% on all bond work while increasing access, readiness, pool and capacity for future opportunities.
2) <u>Student/Career Technical Education (CTE):</u>
   Develop and/or enhance a RSD self-sustaining program for holistic CTE engagement.

3) Workforce:
   Enhance workforce apprenticeship and diversity (people of color / women) to well exceed 25% of construction trades hours on all bond work including outreach and other apprenticeship program development.

4) Faculty/staff:
   Expand and strengthen existing professional and neighborhood networks of faculty / staff, including local government, business and other partners, for professional development and district mission completion.

5) Social Responsibility & Sustainability:
   Develop resources and experiences that promote active engagement of local interests, focusing on social responsibility and sustainability while creating identifiable, lasting outcomes.

6) Mentor-Protégé:
   Implement a Mentor-Protégé program targeting in district firms for development through the bond period.

7) Partnership:
   Facilitate and activate several new & existing key partners for regular engagement with a RSD community partnership program.

METRICS & DESTINATION POINTS:

The program team shall participate in a kick-off Community Engagement Program meeting. Participants shall include key executive / project management representatives and stakeholders, including students, staff and/or community leaders. This program team shall meet quarterly for review / reporting of program outcomes.

District Security Badging Process

1
Pick up RSD Security Badge Packet from General Contractor.

2
Employee completes Fingerprint Card with certified agency.

3
Employee completes Background Check form with Notary at certified agency and additional CIS background check form.

4
Return completed packet with additional background check form to RSD Facilities or DAY CPM with valid photo ID and $65.50 for processing fee; a photo will be taken at this time.

5
After 24-48 hour initial background check comes back approved, a photo ID badge can be created.

- **$250 fine for lost badge**
- **$25 fee for reprinting badge if left at home - original badge MUST be returned the next day**
- **Badge must be in possession of employee at all times while on RSD property - All fines and enforcement of security badges are responsibility of the CM/GC**
- **The badging packet must be presented in person with valid form of picture ID to RSD Facilities or DAY CPM representative**

- Security Badging Packet will be distributed by the General Contractor.
- General Contractor can set up a group badging meeting to complete steps 1-4 as a group to expedite the process, a DAY CPM or RSD representative must attend to receive and process background check paperwork.
- Completed packets will not be accepted without the employee appearing in person with valid photo ID.
- The processing fee is $65.50 per packet, checks can be made out to Reynolds School District #7.
- If employee has had an ODE approved background check within the past 3 years, a letter is required from the previous school district to be sent to RSD to waive ODE background check.

APPENDIX B
REYNOLDS SCHOOL DISTRICT
CM/GC CONTRACT

(Construction Manager/General Contractor)

THE CONTRACT IS BETWEEN:

OWNER:
Reynolds School District No. 7
1204 NE 201ST Avenue
Fairview, OR 97024-2499

And

TBD

CONSTRUCTION MANAGER/ GENERAL CONTRACTOR
(referred to in the Standard General Conditions For Public Improvement Contracts as Contractor and referred to herein as "the CM/GC"):

The Project: Reynolds School District the New Fairview Replacement Elementary School

The Architect is:

BLRB Architects
1001 SW 1st Avenue, Suite 1100
Portland, OR 97204

The Owner's Authorized Representative is:

DAY CPM
12745 SW Beaverdam Rd. Ste. #120
Beaverton, OR 97005

The Owner's Target GMP Range is: **$ 22.7 Million**

STATE OF OREGON

CM/GC CONTRACT

TABLE OF CONTENTS

The Owner and CM/GC agree as set forth below:

ARTICLE 1
DEFINITIONS

Except as expressly defined or modified below or elsewhere in this agreement ("CM/GC Contract"), all capitalized terms shall have the meanings set forth in Section A of Part IV of the State of Oregon Standard General Conditions for Public Improvement Contracts, January 1, 2012, attached as Exhibit A hereto (the "Reynolds School District General Conditions"). The terms below are expressly defined as follows:

1.1 **Affiliate.** Affiliate shall mean any subsidiary of CM/GC, and any other entity in which CM/GC has a financial interest or which has a financial interest in CM/GC (including without limitation parent companies, related businesses under the same holding company, or any other business controlled by, under common control with, or which controls CM/GC).

1.2 **Allowances.** Allowances shall mean the allowance amounts shown in the GMP Supporting Documents, together with such further allowances as may be developed by the parties as the Project progresses.

1.3 **Amendment.** Amendment shall mean a written modification of the Contract (including without limitation any agreed change to the GMP), identified as an Amendment, and executed by CM/GC, the Owner's Authorized Representative, and, where required, approved in writing by the owner.

1.4 **Business Days.** Business Days shall mean every day except Saturday, Sunday, and legal holidays recognized for employees of Reynolds School District, OR.

1.5 **Change Order.** Change Order shall mean a written modification of the Contract under Section D.1 of the Reynolds School District General Conditions (including without limitation any agreed change to GMP), identified as a Change Order and executed by the Owner's Authorized Representative, CM/GC, where applicable, and, where required, approved in writing by the Owner.

1.6 **CM/GC Field Work.** CM/GC Field Work shall mean customary portions of the Work of a minor nature and not feasibly part of the subcontracted work due to: exclusions by the Subcontractor not resolved through the process described in Article 11.3.3, undeveloped design owing to deviations in Work performed or materials delivered by Subcontractors or suppliers that do not represent defective or nonconforming work, a breach or failure to perform by the Subcontractor or supplier, complexity of coordination of the Work, and other similar reasons typically providing cause for "pick-up" or GC Work under industry standards; provided, however, that (i) the CM/GC has reasonably determined that doing such portion of the Work itself is in the best interests of Owner, (ii) such Work is identified as CM/GC Field Work in

monthly billings and (iii) CM/GC receives prior approval of Owner's Authorized Representative as to the scope of such CM/GC Field Work.

1.7 CM Services. CM Services shall have the meaning given in Article 3.3 below.

1.8 Construction Documents. Construction Documents shall have the meaning given in the Reynolds School District Professional Services Agreement with the Architect for this Project.

1.9 Construction Phase. The Construction Phase shall mean the period commencing on the Owner's execution of a GMP Amendment or Early Work Amendment, together with the earlier of (i) issuance by Owner of a Notice to Proceed with any on-site construction or (ii) execution of a subcontract or issuance of a purchase order for materials or equipment required for the Work.

1.10 Construction Phase Services. Construction Phase Services shall mean all of the Work other than the Preconstruction Phase Services.

1.11 Contract Documents. Contract Documents shall have the meaning given in Section A of the Reynolds School District General Conditions, as supplemented by Article 2.1 below.

1.12 Design Development Documents. Design Development Documents shall have the meaning given in the Reynolds School District Professional Services Agreement with the Architect for this Project.

1.13 Early Work. Early Work shall mean Construction Phase Services authorized by Amendment that the parties agree should be performed in advance of establishment of the GMP. Permissible Early Work shall be limited to: early procurement of materials and supplies; early release of bid or proposal packages for site development and related activities; and any other advance work related to critical components of the Project for which performance prior to establishment of the GMP will materially affect the critical path schedule of the Project.

1.14 Early Work Amendment. Early Work Amendment shall mean an Amendment to the Contract executed by and between the parties to authorize Early Work.

1.15 Cost for General Conditions Work. Cost for General Conditions Work or GC Work shall mean that sum identified in Article 8.8 and/or Exhibit C. *[Note: The agency may decide not to fix General Conditions Work costs, but instead may wish to treat them as reimbursable items like all other costs of the Work. If so, this section, and all related sections should be deleted or amended as instructed in Section 8.8]*

1.16 General Conditions Work. General Conditions Work ("GC Work") shall mean (i) that portion of the Work required to support construction operations that is not included within overhead or general expense but is called out as GC Work in Exhibit C, and (ii) any other specific categories of Work approved in writing by the Owner's Authorized Representative as forming a part of the GC Work.

1.17 Guaranteed Maximum Price (GMP). GMP shall mean the Guaranteed Maximum Price of the Contract, as stated in dollars within the GMP Amendment, as determined in accordance with Article 6, and as it may be adjusted from time to time pursuant to the provisions of the Contract.

1.18 GMP Amendment. GMP Amendment shall mean an Amendment to the Contract, issued in the form of Exhibit B and executed by and between the parties, to establish the GMP and identify the GMP Supporting Documents for Construction Phase Services.

1.19 GMP Supporting Documents. GMP Supporting Documents shall mean the documents referenced in the GMP Amendment as the basis for establishing the GMP. The GMP Supporting Documents shall expressly identify the Plans and Specifications, assumptions, qualifications, exclusions, conditions, allowances, unit prices, and alternates that form the basis for the GMP.

1.20 Preconstruction Phase. The Preconstruction Phase shall mean the period commencing on the date of this CM/GC Contract and ending upon commencement of the Construction Phase; provided that if the Owner and CM/GC agree, the Construction Phase may commence before the Preconstruction Phase is completed, in which case both phases shall proceed concurrently, subject to the terms and conditions of the Contract Documents.

1.21 Preconstruction Phase Services. Preconstruction Phase Services shall mean all services described in Article 3.1, and any similar services described in the Request for Proposals, including such similar services as are described in the CM/GC's RFP proposal to the extent they are accepted by Owner, but excluding any Early Work. Early Work shall be considered part of Construction Phase Services.

1.22 Schematic Design Documents. Schematic Design Documents shall have the meaning given in the Reynolds School District Professional Services Agreement with the Architect for this Project.

1.23 Scope Change. Scope Change shall mean only (i) changed site conditions not reasonably inferable from information available to CM/GC at the time of execution of the GMP Amendment, and (ii) significant Work modifications (including additions, substitutions, and deletions), application of Allowances, and selection of alternates, all as approved by the Owner under the Contract beyond that identified or inferable from the GMP Supporting Documents (but in the case of Allowance items, the GMP will increase only if the cost to Owner of the Allowance items exceeds the total amount of the Allowances).

ARTICLE 2
CONTRACT DOCUMENTS

2.1 Contract Documents. For valuable consideration as stated below, Owner and the CM/GC agree to the terms of the contract that are set forth in the Contract Documents. For purposes of this Project, the Contract Document identified as "Public Improvement Contract" in the Reynolds School District General Conditions shall mean this

CM/GC Contract. The CM/GC Contract shall include all exhibits attached hereto, which by this reference are incorporated herein.

2.2 Effective Date. The Contract (hereafter the "Contract") shall become effective on the first date on which every party has signed this CM/GC Contract and Owner has received all necessary approvals.

2.3 The Contract; Order of Precedence. This CM/GC Contract, together with the other Contract Documents, form the entire agreement between the parties. Except as expressly otherwise provided herein, the order of precedence of the Contract Documents is established in Section A.3 of the Reynolds School District General Conditions, if there are inconsistent or conflicting terms among the Contract Documents.

ARTICLE 3
WORK OF THE CONTRACT

3.1 Preconstruction Phase Services. The CM/GC agrees to provide all of the Preconstruction Phase Services described below on an ongoing basis in support of, and in conformance with, the time frames described in the Request for Proposals. Commencement of the Construction Phase shall not excuse CM/GC from completion of the Preconstruction Phase Services, if such services have not been fully performed at commencement of the Construction Phase. Preconstruction Phase Services shall include CM Services performed during the Preconstruction Phase.

3.1.1 The CM/GC shall provide a preliminary evaluation of the Owner's program and budget requirements, each in terms of the other.

3.1.2 The CM/GC shall provide the following services relating to design and preconstruction tasks:

(a) The CM/GC shall consult with, advise, assist, and provide recommendations to the Owner and the design team on all aspects of the planning and design of the Work.

(b) The CM/GC shall jointly schedule and attend regular meetings with the Architect and Owner's Authorized Representative. The CM/GC shall consult with the Owner and Architect and Owner's Authorized Representative regarding site use and improvements, and the selection of materials, building systems and equipment.

(c) The CM/GC shall provide recommendations on construction feasibility; actions designed to minimize adverse effects of labor or material shortages; time requirements for procurement, installation and construction completion; and factors related to construction cost including estimates of alternative designs or materials, preliminary budgets and possible economies.

(d) The CM/GC shall review in-progress design documents, including the documents generally described in the industry as Schematic Development Documents, Design Development Documents, and Construction Documents and provide input and advice on construction feasibility, alternative materials, and availability. CM/GC shall review these completed Schematic Development Documents, Design Development Documents, and Construction Documents and timely suggest modifications to improve completeness and clarity.

3.1.3 The CM/GC shall provide the following services related to the Project schedule:

(a) The CM/GC shall prepare, and periodically update, a preliminary Project schedule for the Architect's and Owner's Authorized Representative's review and the Owner's Authorized Representative's approval.

(b) The CM/GC shall coordinate and integrate the preliminary Project schedule with the services and activities of the Owner, Architect, and CM/GC. As design proceeds, CM/GC shall update the preliminary Project schedule to indicate proposed activity sequences and durations, milestone dates for receipt and approval of pertinent information, submittal of a GMP proposal, preparation and processing of shop drawings and samples, delivery of materials or equipment requiring long-lead time procurement, and Owner's occupancy requirements showing portions of the Project having occupancy priority, provided that the date(s) of Substantial Completion shall not be modified without Owner's prior written approval. If preliminary Project schedule updates indicate that previously approved schedules may not be met, the CM/GC shall make appropriate recommendations to the Owner's Authorized Representative and Architect.

3.1.4 The CM/GC shall make recommendations to Architect and Owner's Authorized Representative regarding the phased issuance of Plans and Specifications to facilitate phased construction of the Work, if such phased construction is appropriate for the Project, taking into consideration such factors as economics, time of performance, availability of labor and materials, and provisions for temporary facilities.

3.1.5 The CM/GC shall provide the following services relating to cost estimating:

(a) The CM/GC shall prepare, for the review of the Architect and Owner's Authorized Representative and approval of the Owner, a preliminary cost estimate utilizing area, volume or similar conceptual estimating techniques.

(b) When Schematic Design Documents have been prepared by the Architect and approved by the Owner, the CM/GC shall prepare for the review of the Architect and Owner's Authorized Representative and approval of the Owner, a more detailed estimate with supporting data. During the preparation of the Design Development Documents, the CM/GC shall update and refine this estimate at appropriate intervals agreed to by the Owner, Architect and Owner's Authorized Representative and CM/GC.

(c) When Design Development Documents have been prepared by the Architect and approved by the Owner, the CM/GC shall prepare a detailed estimate with supporting data for review by the Architect and Owner's Authorized Representative and approval by the Owner. During the preparation of the Construction Documents, the CM/GC shall update and refine this estimate at appropriate intervals agreed to by the Owner, Architect and Owner's Authorized Representative and CM/GC.

(d) If any estimate submitted to the Owner exceeds previously approved estimates or the Owner's budget, the CM/GC shall make appropriate recommendations to the Architect and Owner's Authorized Representative.

(e) CM/GC shall notify the Owner and the design team immediately if any construction cost estimate appears to be exceeding the construction budget.

(f) The CM/GC otherwise shall work with the Architect and Owner to develop a GMP within the Target GMP Range and within Owner's schedule.

3.1.6 The CM/GC shall perform the following services relating to Subcontractors and suppliers:

(a) The CM/GC shall seek to develop Subcontractor and supplier interest in the Project, consistent with applicable legal requirements, and shall furnish to the Owner's Authorized Representative and Architect for their information a list of possible Subcontractors and suppliers, including suppliers who may furnish materials or equipment fabricated to a special design, from whom competitive bids, quotes, or proposals (collectively, "Offers") will be requested for each principal portion of the Work. Submission of such list is for information and discussion purposes only and not for prequalification. The receipt of such list shall not require the Owner, Owner's Authorized Representative or Architect to investigate the qualifications of proposed Subcontractors and suppliers, nor shall it waive the right of the Owner or Architect later to object to or reject any proposed Subcontractor, supplier, or method of procurement.

(b) The CM/GC shall provide input to the Owner and the design team regarding current construction market bidding climate, status of key subcontract markets, and other local economic conditions. CM/GC shall determine the division of work to facilitate bidding and award of trade contracts, considering such factors as bidding climate, improving or accelerating construction completion, minimizing trade jurisdictional disputes, and related issues. CM/GC shall advise Owner on subcontracting opportunities for minority/women/ESB firms.

3.1.7 The CM/GC shall recommend to the Owner's Authorized Representative and Architect a schedule for procurement of long-lead time items which will constitute part of the Work as required to meet the Project schedule, which shall be procured by the CM/GC upon execution of either a GMP Amendment or Early Work Amendment covering such procurement, and approval of such schedule by the Owner's Authorized Representative.

The CM/GC shall expedite the delivery of long-lead time items.

3.1.8 The CM/GC shall work with the Owner in identifying critical elements of the Work that may require special procurement processes, such as prequalification of offerors or alternative contracting methods.

3.1.9 The CM/GC shall Work with the Owner and the design team to maximize energy efficiency in the Project, including without limitation providing estimating and value engineering support to the Owner's analysis and application for energy related incentive programs offered by local utilities.

3.2 Construction Phase Services.

3.2.1 Upon execution of an Early Work Amendment or GMP Amendment, the CM/GC shall provide Construction Phase Services as provided in the Contract Documents, including without limitation bidding all remaining work if Early Work Amendments had been executed as noted below, providing and paying for all materials, tools, equipment, labor and professional and non-professional services, and performing all other acts and supplying all other things necessary to fully and properly perform and complete the Work, as required by the Contract Documents, to furnish to Owner a complete, fully functional Project, capable of being legally occupied and fully used for its intended purposes upon completion of the Contract (or, as to an Early Work Amendment, to furnish such Work as is described in the Early Work Amendment). Construction Phase Services shall include CM Services performed during the Construction Phase.

3.2.2 Notwithstanding any other references to Construction Phase Services in this CM/GC Contract, the Contract shall include Preconstruction Phase Services only unless (i) the parties execute a GMP Amendment or (ii) the parties execute an Early Work Amendment, defined below.

3.2.3 The parties may execute one or more Early Work Amendments identifying specific Construction Phase Services that must be performed in advance of establishment of the GMP, without exceeding a not-to-exceed budget, a maximum not-to-exceed price, or a fixed price ("Early Work Price") to be stated in such Amendment, with such Amendment including all necessary State of Oregon approvals where required. If the Early Work Price is a not-to-exceed budget, then CM/GC shall be obligated to perform the Early Work only to the extent that the Cost of Work therefor, together with the CM/GC Fee, does not exceed the Early Work Price; however if CM/CG performs Early Work with a maximum not-to-exceed price or fixed price, and incurs cost in excess of that maximum not-to-exceed price or fixed price, respectively, the CM/GC shall complete the Early Work and pay such excess cost without reimbursement. If one or more Early Work

Amendments are executed, the CM/GC shall diligently continue to work toward development of a GMP Amendment acceptable to Owner, which shall incorporate the Early Work Amendments. If Owner thereafter terminates the Contract prior to execution of a GMP Amendment, the provisions of Section J.5 of the Reynolds School District General Conditions shall apply.

3.2.4 Prior to commencement of the Construction Phase, and in any event not later than mutual execution of the GMP Amendment, CM/GC shall provide to Owner a full performance bond and a payment security bond as required by Section G of the Reynolds School District General Conditions in the amount of the GMP. If an Early Work Amendment is executed, CM/GC shall provide such bond in the amount of the Early Work Price under the Early Work Amendment. CM/GC shall provide to Owner additional or replacement bonds at the time of execution of any subsequent Early Work Amendment or GMP Amendment, in each case prior to execution of the Amendment and the supplying of any labor or materials for the prosecution of the Work covered by the Amendment, and in each case in a sufficient amount so that the total bonded sum equals or exceeds the total Early Work Price or the GMP, as the case may be. In the event of a Scope Change that increases the GMP, CM/GC shall provide to Owner an additional or supplemental bond in the amount of such increase prior to performance of the additional Work.

3.3 Construction Management (CM) Services. Throughout the Preconstruction Phase and Construction Phase of the Project, the CM/GC shall provide CM Services, generally consisting of coordinating and managing the building process as an independent contractor, in cooperation with the Owner, Owner's Authorized Representative, Architect and other designated Project consultants (the "Construction Principals"). CM Services shall include, but are not limited to:

3.3.1 Providing all Preconstruction Phase Services described above;

3.3.2 Developing and delivering schedules, preparing construction estimates, performing constructability review, analyzing alternative designs, studying labor conditions, coordinating and communicating the activities of the Construction Principals throughout the Construction Phase to all Construction Principals;

3.3.3 Continuously monitoring the Project schedule and recommending adjustments to ensure completion of the Project in the most expeditious manner possible;

3.3.4 Working with the Owner, Owner's Authorized Representative, and the Architect to analyze the design, participate in decisions regarding construction materials, methods, systems, phasing, and costs, and suggest modifications to achieve the goals of providing the Owner with the highest quality Project within the budget, GMP and schedule;

3.3.5 Providing Value Engineering ("VE") services ongoing through the Project. CM/GC shall develop cost proposals, in the form of additions to or deductions from the GMP, including detailed documentation to support such adjustments and shall submit such proposals to Owner for its approval. CM/GC shall actively participate in a formal VE study anticipated to be held at the end of the Design Development phase. CM/GC

acknowledges that VE services are intended to improve the value received by Owner with respect to cost reduction or life cycle of the Project;

3.3.6 Holding and conducting periodic meetings with the Owner and the Architect to coordinate, update and ensure progress of the Work;

3.3.7 Submitting monthly written report(s) to the Owner's Authorized Representative. Each report shall include, but shall not be limited to, Project updates including (i) actual costs and progress for the reporting period as compared to the estimate of costs; (ii) explanations of significant variations; (iii) work completed; (iv) work in progress; (v) changes in the work; and (vi) other information as determined to be appropriate by the Owner. Oral or written updates shall be provided to the Owner as deemed appropriate by the CM/GC or as requested by the Owner;

3.3.8 Maintaining a daily log containing a record of weather, Subcontractors working on the site, number of workers, Work accomplished, problems encountered, safety violations and incidents of personal injury and property damage, and other similar relevant data as the Owner may reasonably require. The log shall be available to the Owner and Architect on request;

3.3.9 Developing and implementing a system of cost control for the Work acceptable to Owner's Authorized Representative, including regular monitoring of actual costs for activities in progress and estimates for uncompleted tasks and proposed changes. The CM/GC shall identify variances between actual and estimated costs and report the variances to the Owner and Architect at regular intervals;

3.3.10 Cooperating with any and all consultants hired by Owner;

3.3.11 At Owner's request, cooperating and performing warranty and inspection Work for the Project through the expiration date of the applicable warranty period;

3.3.12 Assisting Owner with start-up of the Project. Such start-up may occur in phases due to phased occupancy;

3.3.13 Incorporating commissioning and inspection agents' activities into the Project schedule and coordinating Subcontractors required to participate in the commissioning and inspection process;

3.3.14 Performing all other obligations and providing all other services set forth in the Contract Documents; and performing all other acts and supplying all other things necessary to fully and properly perform and complete the Work as required by the Contract.

ARTICLE 4
RELATIONSHIP AND ROLES OF THE PARTIES

4.1 **Independent Contractor.** The CM/GC is an independent contractor and not an officer, employee, or agent of Owner as those terms are used in ORS 30.265.

4.2 **Performance of Work.** The CM/CG covenants with Owner to cooperate with the Architect and Owner's Authorized Representative and utilize the CM/GC's professional skill, efforts and judgment in furthering the interests of Owner; to furnish efficient business administration and supervision; to furnish at all times an adequate supply of workers and materials; and to perform the Work in conformance with the terms and conditions of the Contract Documents and in an expeditious and economical manner consistent with the interests of Owner.

4.3 **Design Consultants.** Owner has a separate contract with the Architect related to the Project. Both the CM/GC and the Architect shall be given direction by Owner through Owner's Authorized Representative. The CM/GC agrees to support Owner's efforts to create a collaborative and cooperative relationship among the CM/GC, Architect, other Project consultants, and Owner's Authorized Representative.

4.4 **Forms and Procedures.** The Owner has developed or may develop procedures and forms for the administration and tracking of the Contract. The CM/GC agrees to abide by those procedures and use those forms.

4.5 **CM/GC's Project Staff.** The CM/GC's Project staff shall consist of the following personnel:

4.5.1 Project Manager and Assistant Project Manager/Project Engineer:_____ shall be the CM/GC's Project Manager and _____shall be CM/GC's Assistant Project Manager/Project Engineer and one or both will supervise and coordinate all Construction Phase and Preconstruction Phase Services of CM/GC and participate in all meetings throughout the Project term unless otherwise directed by Owner. CM/GC represents that each of the Project Manager and Assistant Project Manager have authority to execute Change Orders and Contract Amendments on behalf of CM/GC.

4.5.2 Job Superintendent: If Construction Phase Services are requested and accepted by Owner, _____ shall be the CM/GC's on-site job superintendent throughout the Project term.

4.6 **Key Persons.** The CM/GC's personnel identified in Article 4.5, and any other personnel identified by name in CM/GC's Proposal, shall be considered Key Persons and shall not be replaced during the Project without the written permission of Owner, which shall not be unreasonably withheld. If the CM/GC intends to substitute personnel, a request must be given to Owner at least 30 Days (or such shorter period as permitted by Owner) prior to the intended time of substitution. When replacements have been approved by Owner, the CM/GC shall provide a transition period of at least 10 Business Days during which the original and replacement personnel shall be working on the Project concurrently. Once a replacement for any of these staff members is authorized, further replacement shall not occur without the written permission of Owner.

ARTICLE 5

DATE OF COMMENCEMENT; SUBSTANTIAL AND FINAL COMPLETION

5.1 **Notice to Proceed.** If Construction Phase Services are added to the Contract as set forth in Article 3.2, then a notice to proceed will be issued by Owner to begin the designated or full Construction Phase Services ("Notice to Proceed"). It is anticipated that the Notice to Proceed will be issued on or about February 9, 2017. A separate Notice to Proceed will be given for any and every Early Work Agreement.

5.2 **Completion of Project.** The CM/GC shall achieve Substantial Completion of the entire Work not later than: August 31, 2018 and shall achieve Final Completion not later than October 30, 2018. .

5.3 **Time is of the Essence.** All time limits stated in the Contract Documents are of the essence.

5.4 **Time Extensions.** Notwithstanding provisions for Contract time extensions in Section D.2 of the Reynolds School District General Conditions, Owner and CM/GC agree that timely completion of the Work is essential to the success of the Project, and that approval for time extension shall be granted only as a last resort. CM/GC agrees to make every effort to recover "lost" time.

5.5 **Liquidated Damages.** The CM/GC acknowledges that the Owner will sustain damages as a result of the CM/GC's failure to substantially complete the Project in accordance with the Contract Documents. These damages may include, but are not limited to delays in completion, use of the Project, and costs associated with Contract administration and use of temporary facilities. The CM/GC and the Owner acknowledge that the actual amount of damages would be difficult to determine accurately and agree that that the following liquidated damages figure represents a reasonable estimate of such damages and is not a penalty:

5.5.1 FOR SINGLE PHASE PROJECTS: Liquidated Damages shall be $ 5,000 for each day that Substantial Completion exceeds the required date of Substantial Completion.

5.5.2 The CM/GC agrees to pay to the Owner the liquidated damage sums set forth above for each day of delay or any fraction thereof and further agrees that Owner may deduct such sums from payments the Owner otherwise owes to CM/GC under the Contract. If such deduction does not result in payment to Owner of the assessed liquidated damages in full, CM/GC shall promptly pay any and all remaining sums due to the Owner upon demand.

ARTICLE 6
FEES, CONTRACT SUM AND GMP

6.1 **Fees; Contract Sum; GMP.** Owner shall pay CM/GC the Preconstruction Fee described in Article 6.2. In addition, for each Early Work Amendment executed by CM/GC and

Owner, Owner shall pay CM/GC, as payment for the Early Work, an amount equal to the sum of the CM/GC Fee attributable to the Early Work, and the actual cost of all Early Work completed and accepted by Owner, but not exceeding the Early Work Price.

If a GMP Amendment is executed, Owner shall pay CM/GC, as payment for the Work, the "Contract Sum" which shall equal the sum of the Preconstruction Fee, the CM/GC Fee, the actual cost of the Work including any Early Work, but not exceeding the GMP.

The GMP shall be determined in accordance with the formula set forth below and as described in Article 6.3. The "Cost of the Work" is defined in Article 8. Costs in excess of the GMP shall be paid by the CM/GC without reimbursement by Owner. Changes to the GMP shall only be authorized by Amendment or Change Order that includes any necessary Reynolds School District approvals.

Preconstruction Fee	**+**	**CM/GC Fee***	**+**	**Estimated Cost of the Work (Est COW) = GMP****
Cost Reimbursement		% of Est. COW		Includes CM/GC's Contingency and the
$ Maximum		Per RFP Response		Cost for GC Work

* CM/GC Fee is the composite of Fee/Performance & Payment Bond/Liability Insurance

** Formula assumes no Early Work is performed.

6.2 Preconstruction Fee. The Preconstruction Fee shall be payable to CM/GC on a cost reimbursement basis up to a maximum sum of $, which shall cover constructability review, value engineering, cost estimating, development of GMP, and all other Preconstruction Phase Services, as described in Article 3. If CM/GC's costs for provision of Preconstruction Phase Services exceed the maximum Preconstruction Fee, CM/GC shall pay such additional cost without reimbursement. CM/GC shall not be entitled to any CM/GC Fee upon the Preconstruction Fee. Owner shall pay the Preconstruction Fee on a cost-reimbursement basis with each application for payment during the Preconstruction Phase. If the total actual Preconstruction Fee is less than the maximum Preconstruction Fee used for initial calculation of the GMP as provided above, the GMP shall be reduced by the difference; provided that Owner may direct instead that any unapplied portion of the maximum Preconstruction Fee be applied to Construction Phase Services, in which case the GMP shall not be reduced by the portion so applied. Except to the extent the parties may expressly agree to the contrary in the GMP Amendment, no Preconstruction Fee or other fee, compensation or reimbursement shall be payable to CM/GC with respect to Preconstruction Services performed after execution of the GMP Amendment.

6.3 Establishment of CM/GC Fee; **Adjustments to CM/GC Fee.**

6.3.1 The "CM/GC Fee" shall be a percentage of the cost of the work to be identified in the GMP Amendment, and shall be calculated as_____ **%** of the Estimated Cost of the Work at the time of establishment of the GMP. In making such calculation, the Estimated Cost of the Work shall exclude the Preconstruction Fee, the CM/GC Fee itself, Performance and Payment Bond and Liability Insurance and any other cost or charge which this CM/GC Contract states is not to be included in calculating the CM/GC Fee, but shall include Allowances, selected alternates, Cost for General Contractor Work, and

reasonable CM/GC contingencies as designated in the GMP Supporting Documents. The CM/GC Fee is inclusive of profit, overhead, liability insurance, performance and payment bond and all other indirect or non-reimbursable costs. Owner shall pay the CM/GC Fee ratably with each application for payment during the Construction Phase. In the case of Early Work, the CM/CG Fee shall be the above percentage multiplied by the actual Cost of the Early Work, until such time as a GMP Amendment is executed, at which time such CM/GC Fee payments shall be credited against the CM/GC Fee fixed therein.

6.3.2 Notwithstanding any provision of Section D.1.3 of the Reynolds School District General Conditions to the contrary, and unless the parties agree in writing to the contrary, any Amendment or Change Order that increases or decreases the GMP shall adjust the CM/GC Fee then in effect by the multiplying the percentage shown in Article 6.3.1 by the change in the Estimated Cost of the Work reflected in such approved Amendment or Change Order. In addition, if the Contract is terminated for any reason prior to full completion of the Work (including, without limitation, termination during or following performance of Early Work), the CM/GC Fee shall be limited to the total CM/GC Fee multiplied by the percentage of Work completed and accepted at the time of termination. The CM/GC Fee shall not be subject to adjustment for any other reason, including, without limitation, schedule extensions or adjustments, Project delays, unanticipated costs, or unforeseen conditions.

6.4 Determination of GMP.

6.4.1 CM/GC shall deliver to Owner a proposed GMP and GMP Supporting Documents at a time designated by Owner during the Preconstruction Phase. If any actual subcontract Offers are available at the time the GMP is being established, CM/GC shall use those subcontract Offers in establishing the GMP.

6.4.2 As the Plans and Specifications may not be developed to the stage of biddable design documents at the time the GMP proposal is prepared, the CM/GC shall provide in the GMP for further development of the Plans and Specifications by the Architect that is consistent with the Contract Documents and reasonably inferable therefrom. Such further development does not include such things as changes in scope, systems, kinds and quality of materials, finishes or equipment, all of which, if required, shall be incorporated by Change Order or Amendment with a corresponding GMP adjustment.

6.4.3 The CM/GC shall include with its GMP proposal a written statement of its basis (the "GMP Supporting Documents"), which shall include:

(a) A list of the Plans and Specifications, including all addenda thereto and the conditions of the Contract, which were used in preparation of the GMP proposal.

(b) A list of allowances and a statement of their basis.

(c) A list of the clarifications and assumptions made by the CM/GC in the preparation of the GMP proposal to supplement the information contained in the Plans and Specifications.

(d) The proposed GMP, including a statement of the estimated cost organized by trade categories, allowances, contingency, and other items and the associated fees that comprise the GMP.

(e) The Date of Substantial Completion upon which the proposed GMP is based, and a schedule of the Construction Documents issuance dates upon which the date of Substantial Completion is based.

6.4.4 The CM/GC shall meet with the Owner and Architect to review the GMP proposal and the written statement of its basis. If the Owner or Architect discovers any inconsistencies or inaccuracies in the information presented, they shall promptly notify the CM/GC, who shall make appropriate adjustments to the GMP proposal, its basis or both.

6.4.5 Prior to the Owner's acceptance of the CM/GC's GMP proposal and issuance of a Notice to Proceed, the CM/GC shall not incur any cost to be reimbursed as part of the Cost of the Work, except as specifically provided in an Early Work Amendment.

6.4.6 The Owner shall authorize and cause the Architect to revise the Plans and Specifications to the extent necessary to reflect the agreed-upon assumptions and clarifications contained in the GMP Amendment. Such revised Plans and Specifications shall be furnished to the CM/GC in accordance with schedules agreed to by the Owner, Architect and CM/GC. The CM/GC shall promptly notify the Architect and Owner if such revised Plans and Specifications are inconsistent with the agreed-upon assumptions and clarifications.

6.4.7 The GMP shall include in the Estimated Cost of the Work only those taxes which are enacted at the time the GMP is established.

6.4.8 The Estimated Cost of the Work shall include the CM/GC's contingency, a sum established by the CM/GC for the CM/GC's exclusive use, with owner representative review and approval, to cover additional development of Plans and Specifications and unanticipated costs and unforeseen conditions which are properly reimbursable as Cost of the Work but which are not the basis for a Change Order.

6.4.9 The CM/GC shall work with the Architect and Owner to identify and confirm components and systems not specifically shown but required for a complete, fully functional Project. Owner will direct the Architect to complete the final Construction Documents in accordance with the Project scope agreed upon by all parties at the time the GMP is established.

6.4.10 Notwithstanding the level of detail represented in the GMP Supporting Documents, the CM/GC shall represent and warrant, at the time that it submits the GMP, that the GMP includes the entire cost of all components and systems required for a complete, fully functional facility.

6.4.11 In developing the GMP, the CM/GC shall include and identify such contingencies within

the GMP as may be necessary to pay for unanticipated costs and unforeseen conditions that are required for a complete, fully functional facility.

6.5 Failure to Furnish an Acceptable GMP. If the CM/GC does not furnish a GMP acceptable to Owner within Owner's Target GMP Range, or if Owner determines at any time in its sole discretion that the parties may fail to reach a timely agreement on a GMP acceptable to Owner, Owner may terminate the Contract without liability, and the CM/GC shall not receive additional compensation beyond the Preconstruction Fee under the Contract and sums due under any Early Work Amendment. Termination under this provision shall proceed under Section J.5 of the Reynolds School District General Conditions as a termination for Owner's convenience. CM/GC further agrees that Owner shall not be liable for any damages whether actual, consequential or otherwise for termination of the Contract under this provision.

6.6 Acceptance of GMP. Upon acceptance of the GMP by Owner, the parties shall execute a GMP Amendment.

6.7 Owner Savings. If the sum of the Preconstruction Fee, plus the CM/GC Fee, plus the actual and final Cost of the Work (the Contract Sum as defined in Article 6.1), is less than the GMP, the savings shall accrue to the Owner.

6.8 Allowance Work.

6.8.1 CM/GC shall not perform any Allowance Work without prior execution by Owner of a Change Order approving the Specifications for the Allowance Work and the price thereof.

6.8.2 Owner shall be entitled to apply any Allowance line items that are not been fully expended to other line item Allowances that have been fully expended, without any resulting increase in the GMP.

6.8.3 If the total Cost of the Allowance Work exceeds the total Allowances within the GMP, CM/GC shall not perform any Allowance Work in excess of such amount until either (i) the parties agree that the additional Allowance work will be performed within the then-current GMP or (ii) a GMP Amendment is executed to increase the GMP by the excess cost of the Allowance work.

6.8.4 The Contract Sum shall not include any Allowance items not identified in the GMP Amendment or the GMP Supporting Documents until such allowance item is reduced to a fixed price by Change Order or Amendment.

6.8.5 If at the Final Completion of the Project, any portion of the Allowance funds remains unexpended, the GMP shall be reduced by a corresponding amount via a Change Order or Amendment.

6.9 Reallocating Projected Cost Underruns after Bid (Offer) Buyout. As soon as possible after the awarding of the Work to the primary Subcontractors, CM/GC shall review

projected costs and provide the Owner with a buy-out status report showing any projected cost underruns, reconciling accepted Offers and other reasonably anticipated costs, to the cost estimate used by CM/GC to establish the GMP. CM/GC shall include with its report any underlying documentation requested by Owner used to develop or support such report. CM/GC shall also consider the reduced risk associated with known subcontracting costs, and the impact that reduced risk has on the amount of the CM/GC's Contingency. The parties shall negotiate in good faith to execute a Change Order transferring an appropriate portion of any projected cost underruns to an Owner-controlled contingency fund to be held within the GMP to pay for additional costs arising from (a) any Owner-directed or approved change to the Work, (b) schedule changes that would otherwise entitle CM/GC to an increase in the GMP, (c) Allowance items after exhaustion of all Allowances, (d) selection by Owner of more expensive alternates than those used for calculation of the GMP, (e) Owner selection of substitutions that increase the Cost of the Work, or (f) any other costs which otherwise would entitle CM/GC to an increase in the GMP. Any transfer of projected cost underruns from CM/GC's contingency to the Owner-controlled contingency fund will not affect CM/GC's obligation to furnish Owner with a complete, fully functional facility within the GMP without use of the funds transferred to the Owner-controlled contingency fund unless such funds are released by Owner for the purposes set forth in (a) through (f) of this Article 6.9. Any transfer of funds to the Owner-controlled contingency fund will not reduce the CM/GC Fee, nor will any subsequent release and use of funds from the Owner-controlled contingency fund for the purposes set forth in (a) through (f) of this Article 6.9 increase the CM/GC Fee.

ARTICLE 7
CHANGES IN THE WORK

7.1 **Price Adjustments**. Adjustments to the Estimated Cost of the Work required by changes in the Work shall be determined by any of the methods listed in Section D of the Reynolds School District General Conditions, except that, unless the adjustment is based upon fixed pricing or unit pricing:

7.1.1 The overhead and profit markup for the CM/GC shall be limited to the CM/GC Fee adjustment, if any, permitted under Article 6.3.2 of this CM/GC Contract;

7.1.2 The increase or decrease in the Estimated Cost of the Work, other than for subcontract work, shall be calculated pursuant to Articles 8 and 9 of this CM/GC Contract, instead of being based on CM/GC's Direct Costs as defined in the Reynolds School District General Conditions; and

7.1.3 In calculating adjustments to subcontracts, unless the parties agree otherwise, the change shall be limited to the Subcontractor's Direct Costs plus the supplemental mark-up provided in Section D of the Reynolds School District General Conditions, and shall not be modified by Articles 8 and 9 of this CM/GC Contract.

7.2 **Adjustments to GMP.** Adjustments to the GMP after execution of the GMP Amendment may be made only (i) in the event of Scope Changes or (ii) as otherwise

expressly provided in this CM/GC Contract, and then only in accordance with the following procedure:

7.2.1 CM/GC shall review subsequent iterations of the Plans and Specifications as they are prepared to determine whether, in the opinion of CM/GC, they result in a Scope Change so that it can be determined if an adjustment to the GMP is warranted.

7.2.2 Changes to the GMP shall be initiated by written notice by one party to the other ("GMP Change Request"). CM/GC shall deliver any such GMP Change Request to Architect and Owner's Authorized Representative promptly after becoming aware of any Scope Change if, in CM/GC's opinion, it constitutes grounds for adjustment of the GMP. Any GMP Change Request shall include a proposal as to the appropriate GMP adjustment with respect to the Scope Change at issue.

7.2.3 CM/GC shall submit its GMP Change Requests as soon as possible, and CM/GC shall not be entitled to claim a GMP increase unless CM/GC submitted a GMP Change Request to Owner's Authorized Representative and to Architect within the earlier of (a) 30 Days after CM/GC has received the information constituting the basis for the claim, or (b) as to Work not yet bid or proposed, prior to submission of solicitations for such Work and as to Work already solicited, prior to commencement of the portion of the Work for which CM/GC intends to claim a Scope Change; and (c) in any event, prior to CM/GC's signing of a Change Order for the Scope Change.

7.2.4 Owner may, at any time, submit a GMP Change Request requesting a reduction of the GMP, which shall include Owner's basis for such request, which may include, for example, reduction of the CM/GC's Contingency after further development of the Plans and Specifications that form the basis for the original GMP Amendment, and/or unused Allowances.

7.2.5 CM/GC shall work with Architect to reconcile all differences in its GMP Change Request with Architect within seven Days from the date of submission of the GMP Change Request. "Reconciled" means that the CM/GC and Architect have verified that their assumptions about the various categories are the same, and that they have identified the reason for differences in the GMP Change Request and the Architect's position. CM/GC shall submit the Reconciled GMP Change Request to Owner, which submission shall be a condition to any CM/GC claim for a GMP increase.

7.2.6 If the Reconciled GMP Change Request is not acceptable to Owner, CM/GC agrees to work with the Owner and the Architect to provide a GMP Change Request that is acceptable to Owner.

7.2.7 CM/GC agrees to make all records, calculations, drawings and similar items relating to GMP Change Request available to Owner and to allow Architect and Owner access and opportunity to view such documents at CM/GC's offices. Upon Owner's reasonable notice, CM/GC shall deliver two copies of such documents to Owner's Representative and Architect at any regular meeting or at the Site.

7.2.8 GMP increases, if any, shall not exceed the increased Cost of the Work arising from the Scope Change (whether based on agreed fixed pricing, or the estimated Cost of the Work increase based on cost-reimbursable pricing), reconciled in accordance with the above provisions, as arising from the incident justifying the GMP increase, plus or minus the CM/GC Fee applicable to such change in the Cost of the Work.

7.2.9 Except as provided in this Article 7.2, adjustments to the GMP shall be reconciled in accordance with Section D of the Reynolds School District General Conditions.

7.3 Execution by Owner. If Architect is not the Owner's Authorized Representative, then notwithstanding any provision in the Contract to the contrary, Architect has no authority to execute Change Orders or Amendments on behalf of Owner, and only duly authorized personnel of Owner may do so.

ARTICLE 8
COST OF THE WORK
(To Be Reimbursed)

8.1 Cost of the Work. The term "Cost of the Work" shall mean the following costs. The Cost of the Work shall include only those items necessarily and reasonably incurred by CM/GC in the proper performance of the Work and specifically identified in this Article 8, and only to the extent that they are directly related to the Project.

8.2 Labor Costs.

8.2.1 Wages of construction workers directly employed by the CM/GC to perform the construction of the Work at the site.

8.3 Subcontract Costs.

8.3.1 CM/GC's actual payment to Subcontractors pursuant to CM/GC's contract with such Subcontractor for the Work on the Project. No amount paid by or payable to any such Subcontractor other than the fixed or cost reimbursement price of its subcontract shall be included in the Cost of the Work, unless otherwise approved in writing by Owner.

8.4 Costs of Materials and Equipment Incorporated in the Work or Stored On Site.

8.4.1 Costs, including transportation, of materials and equipment incorporated or to be incorporated in the completed Work.

8.4.2 Costs of materials in excess of those actually installed, but required to provide reasonable allowance for waste and for spoilage. Unused excess materials, if any, shall be delivered to Owner at the completion of the Work or, at Owner's option, shall be sold by the CM/GC. Any sale shall be commercially reasonable and CM/GC shall provide accounting for such a sale within 15 Days of the transaction. Net amounts realized, if any, from such sales shall be credited to Owner as a deduction from the Cost of the Work.

8.5 Costs of Miscellaneous Equipment and Other Items; Equipment Rental Charges.

8.5.1 Costs, including transportation, installation, maintenance, dismantling and removal, of materials, supplies, temporary facilities, machinery, equipment, and hand tools not customarily owned by the construction workers, which are provided by the CM/GC at the site and fully consumed in the performance of the Work; and cost less salvage value on such items if not fully consumed, whether sold to others or retained by the CM/GC; provided that Owner at Owner's option may require that CM/GC deliver to Owner (at no charge) at the end of the Project any of such items procured for this Project. Cost for items previously used by the CM/GC shall mean fair market value. CM/GC shall charge no additional administrative or other mark-up for purchased items. The CM/GC shall document all small tools purchased for the Project via invoices in monthly billing, and shall document the disposition of small tools which have an individual price that exceeds $100. A copy of such disposition log shall accompany the payment application whenever these items are included in the application. In no case shall a tools cumulative billing to the project exceed 50% of fair market purchase price of the same new tool.

8.5.2 Rental charges for temporary facilities, machinery, equipment and hand tools not customarily owned by the construction workers, which are provided by the CM/GC at the site, whether rented from the CM/GC or others, and costs of transportation, installation, minor repairs and replacements, dismantling and removal thereof. Rates and quantities of equipment rented shall be according to industry standards, shall not exceed 100% of the rental rates published from time to time in the Rental Rate Blue Book for Construction Equipment, prepared by Machinery Information Division of Primedia Information Incorporated in effect at the time of rental, shall not exceed acquisition costs, and for individual items exceeding $ 100, will be subject to Owner's prior approval. CM/GC shall deliver to Owner a list of published rates from time to time at Owner's request. For all items rented or leased, the CM/GC shall charge Owner only the rental charge incurred by CM/GC with no additional administrative or other mark-up. CM/GC shall make efforts and use its best skills and judgment to procure equipment in the most expeditious and economical manner consistent with the interest of the Owner. Efforts shall include, but not be limited to, providing Owner with a rent/buy analysis so that Owner may elect for CM/GC to procure the item in lieu of rental if the facility at issue is expected to be rented for six months or longer. Such rent/buy analysis shall include, where available, a leasing rate commensurate with the expected term of rental of the facility at issue.

8.5.3 Costs of removal of debris from the site.

8.6 Other Costs.

8.6.1 Deductible for builder's all/risk insurance as required by Section G of the Reynolds School District General Conditions.

8.6.2 Sales, use or similar excise taxes imposed by a governmental authority which are directly related to the Work and for which the CM/GC is liable.

8.6.3 Fees and assessments for the building permit and for other permits, licenses and inspections for which the CM/GC is required by the Contract Documents to pay.

8.6.4 CM/GC deposits lost for causes other than the CM/GC's fault or negligence.

8.6.5 Other costs incurred in the performance of the Work if and to the extent approved in advance in writing by Owner.

8.7 **Costs to Prevent Damage or Injury in Emergencies.** The Cost of the Work shall also include costs which are incurred by the CM/GC in taking action to prevent threatened damage, injury or loss in case of an emergency affecting the safety of persons and property.

8.8 **Cost For General Conditions Work.** CM/GC shall be paid a sum of $_____ for all services as stated in Exhibit C as payment for the GC Work, including all labor, materials, and direct and indirect costs thereof. To the extent any General Conditions Work is listed in Exhibit C and also otherwise described above in this Article 8, CM/GC's compensation for the same is included in the Cost for GC Work and shall not otherwise be charged as Cost of the Work. The Cost of the GC shall not be increase unless there is an approved extension of time to the approved GMP schedule, which warrants only those items in Exhibit C that would increase due to the time extension. The Cost for General Conditions Work, less 5% retainage thereon, shall be paid based on actual cost of work on a reimbursable basis, commencing with the first progress billing after commencement of the scheduled Construction Phase.

ARTICLE 9
COSTS EXCLUDED FROM COST OF WORK
(Not To Be Reimbursed)

9.1 **Costs Excluded from Cost of Work.** The following shall not be included in the Cost of the Work:

9.1.1 Salaries and other compensation of the CM/GC's personnel stationed at the CM/GC's principal office or offices other than the site office except as allowed under Articles 8.2.2 and 8.2.3.

9.1.2 Expenses of the CM/GC's principal office and offices other than the site office.

9.1.3 Any overhead and general expenses, except as may be expressly included in Article 8.

9.1.4 CM/GC's capital expenses, including interest on the CM/GC's capital employed for the Work.

9.1.5 Rental cost of machinery and equipment, except as provided in Article 8.5.2

9.1.6 Any cost associated with the Project not specifically and expressly described in Article 8.

9.1.7 Costs due to the fault or negligence of the CM/GC, Subcontractors, suppliers, anyone directly or indirectly employed by any of them, or for whose acts any of them may be liable.

9.1.8 The cost of correction of any repair work, nonconforming or defective work, or warranty work.

9.1.9 Merit, safety, or other incentive payments, bonuses or awards, or any expenses in connection therewith, except as provided in Article 8.

9.1.10 Fines and penalties.

9.1.11 Except for Early Work, the cost of Preconstruction Phase Services.

9.1.12 The Cost of the Work for GC Work in excess of the Proposed Cost for General Conditions Work.

9.1.13 Any costs in excess of the GMP.

9.1.14 Premiums for Subcontractor bonds unless authorized by Owner.

9.1.15 Architect's cost to the CM/GC, subcontractors, suppliers, or anyone for requiring more than (2) two reviews of each Shop Drawing, Product Data item, sample and similar submittals to the Architect.

9.1.16 Architect's cost to the CM/GC, subcontractors, suppliers, or anyone for requiring more than (1) one inspection by the Architect for any portion of the Work to determine whether such portion of the Work is substantially complete, or (1) one inspection by the Architect to determine final completion in accordance with the Contract Documents.

ARTICLE 10
DISCOUNTS, REBATES AND REFUNDS

10.1 **Discounts, Rebates and Refunds.** Cash discounts obtained on payments made by the CM/GC shall accrue to Owner. Trade discounts, rebates, refunds and net amounts received from sales of surplus materials and equipment shall accrue to Owner, and the CM/GC shall make provisions so that they can be secured.

10.2 **Amounts Credited to Owner.** Amounts which accrue to Owner in accordance with the provisions of Article 10.1 shall be credited to Owner as a deduction from the Cost of the Work.

ARTICLE 11
SUBCONTRACTS AND OTHER CONTRACTS

11.1 General Subcontracting Requirements.

11.1.1 Other than Work performed pursuant to Articles 11.4 or 11.5 of this CM/GC Contract, CM/GC shall subcontract the Work to Subcontractors other than the CM/GC and its Affiliates.

11.1.2 The CM/GC shall comply with Oregon Administrative Rules ("OAR") 125-246-0200, 125-246-0210, and 125-246-0220 in all respects for the solicitation of Minority, Women and Emerging Small Business Enterprises. Compliance shall include pass-through requirements for Subcontractor demonstrations of good faith efforts for all subcontract Offer packages, for which set goals shall not be utilized.

11.1.3 The CM/GC shall report to Owner on the results of the good faith efforts of compliance required in Article 11.1.2 following award of all subcontracts. The CM/GC shall also submit quarterly reports to Owner listing Work contracted to date with Minority, Women

and Emerging Small Business Enterprises.

11.2 CM/GC's Obligations under Subcontracts.

11.2.1 No use of a Subcontractor or supplier shall relieve the CM/GC of any of its obligations or liabilities under the Contract. Except as may expressly otherwise be provided in the Contract, the CM/GC shall be fully responsible and liable for the acts or omissions of all Subcontractors and suppliers including persons directly or indirectly employed by them. The CM/GC shall have sole responsibility for managing and coordinating the operations of its Subcontractors and suppliers, including the settlement of disputes with or between the CM/GC and any such Subcontractor or supplier.

11.2.2 The CM/GC shall include in each subcontract and require each Subcontractor to include in any lower tier subcontract, all provisions necessary to make all of the provisions of the Contract Documents, including the Reynolds School District General Conditions, fully effective as applied to Subcontractors. CM/GC shall indemnify Owner for any additional cost based on a subcontractor claim which results from the failure of CM/GC to incorporate the provisions of this CM/GC Contract in each subcontract. The CM/GC shall provide all necessary Plans, Specifications, and instructions to its suppliers and Subcontractors to enable them to properly perform their work.

11.2.3 Retainage from Subcontractors. Except with the Owner's prior approval, payments to Subcontractors shall be subject to retainage of no more than 5%. The Owner and the CM/GC shall agree upon a mutually acceptable procedure for review and approval of payments and retainage for Subcontractors.

11.3 Subcontractor Selection.

11.3.1 Unless otherwise provided under this Article 11, the selection of all Subcontractors and suppliers shall be made by competitive Offers in a manner that will not

encourage favoritism or substantially diminish competition. While not subject to the competitive procurement requirements of ORS Chapter 279C, the process shall conform to the following procedures, in general compliance with the open and competitive nature of public procurement, taking into account industry subcontracting practices.

11.3.2 CM/GC shall submit to Owner's Authorized Representative its proposed procurement documents for review and comment before they are issued for solicitation. CM/GC shall consider and respond to all Owner comments regarding any proposed Offer packages. As Offers are received, CM/GC shall submit to the Owner an Offer comparison in a mutually agreeable form together with any specific back-up documentation requested by Owner. The competitive process used to award subcontracts by the CM/GC may be monitored by the Owner's Authorized Representative; provided that such monitoring shall not excuse CM/GC from compliance with the subcontracting requirements of this CM/GC Contract. CM/GC shall cooperate in all respects with Owner's monitoring. The Owner's Authorized Representative shall be advised in advance of and be given the opportunity to be present at Offer openings, and CM/GC shall provide him or her with a summary or abstract of all Offers in form acceptable to the Owner's Authorized Representative, and

copies of particular Offers if requested, prior to CM/GC's selection of Offerors. Prior to opening Offers, the CM/GC agrees to disclose in writing to Owner any financial interest it has in any such Subcontractor, supplier or other contracting party whenever such Subcontractor, supplier or contracting party intends to compete on any Project work, directly or indirectly, including whether such party is an Affiliate of CM/GC.

11.3.3 The following minimum requirements apply to the Subcontract solicitation process:

(a) Solicitations will be advertised at least 10 Days prior to opening in the Daily Journal of Commerce and at least one other newspaper specifically targeted to reach the Minority, Women and Emerging Small Business audience. CM/GC also agrees to advertise in a local community newspaper in the area in which the Project is located, in order to allow for local participation in the solicitation process.

(b) Unless specific other prior arrangement has been made with Owner, all Offers will be written, and submitted to a specific location at a specific time. CM/GC shall time-stamp all Offers as received. Subcontractors must be qualified to perform the Work for this Project by being appropriately registered with the State of Oregon Construction Contractors Board.

(c) If fewer than three (3) Offers are submitted in response to any solicitation (inclusive of any Offer submitted by CM/GC), prior written approval by Owner shall be required to accept an Offer.

(d) CM/GC may develop and implement a prequalification process for particular solicitations, followed by selection of successful Offers among those Offerors

that CM/GC determines meet the prequalification standards, with Owner's prior written approval of such prequalification process.

(e) CM/GC shall comply, and require Subcontractor compliance with, State of Oregon Bureau of Labor & Industries prevailing wage rates as specified in the RFP.

(f) Owner may at its sole discretion, require CM/GC to re-solicit for Offers based on the same or modified documents.

(g) CM/GC shall review all Offers and shall work with Offerors to clarify Offers, reduce exclusions, verify scope and quantities, and seek to minimize work subsequently awarded via the Change Order process.

(h) The CM/GC will document any and all discussions, questions and answers, modifications and responses to from any Offeror and ensure that the same are distributed to all Offerors, and Owner shall be entitled to inspect such documentation on request.

(i) CM/GC shall determine the lowest Offer for each solicitation that meets CM/GC's reasonable performance standards for the components of the Work at

issue; provided that if CM/GC determines it is unable to execute a suitable subcontract with such Offeror, CM/GC may, with Owner's prior approval, execute a subcontract with the second-lowest Offeror pursuant to Article 11.3.4 below.

11.3.4 Under special circumstances and only with prior written authorization by Owner, Work may be subcontracted on other than a low price basis, including without limitation, through competitive negotiation. As a condition to its authorization, Owner may require CM/GC's agreement to establish and implement qualification and performance criteria for Offerors, including a scoring system within requests for proposals. Examples include: where there are single fabricators of materials; special packaging requirements for Subcontractor work; design-build work or, where an alternative contracting method can be demonstrated to clearly benefit Owner.

11.3.5 CM/GC shall notify Owner in writing in advance before award of any proposed Subcontract, which notice shall include summaries in a form acceptable to Owner of all Offers received for the Subcontract at issue. Owner reserves the right to disapprove any proposed Subcontractors, suppliers and Subcontract or supply contract awards, based on legal standards of responsibility. Owner shall not unreasonably disapprove any proposed Subcontractor or supplier and increased costs due to Owner's disapproval shall be cause for an increase in the GMP.

11.3.6 CM/GC's subcontracting records shall not be considered public records; provided, however, that Owner and other agencies of the State shall retain the right to audit and monitor the subcontracting process in order to protect the

Owner's interests.

11.4 CM/GC Field Work.

11.4.1 The CM/GC or its Affiliate may provide CM/GC Field Work required to complete the Project with its own forces, without the necessity of subcontracting such work.

11.4.2 Except as provided in Article 11.4.1, any other portion of the Work proposed to be performed by CM/GC or any Affiliate, including without limitation provision of any materials, equipment, or supplies, shall be subject to the provisions of Article 11.5.

11.5 Subcontracting by CM/GC.

11.5.1 Except to the extent otherwise approved in advance in writing by Owner's Authorized Representative, the CM/GC or its Affiliates may submit an Offer in accordance with Article 11.3 to do Work with its own forces, provided at least 50% of the labor by such work unit is performed by employees of the CM/GC or such Affiliate.

11.5.2 For those items for which the CM/GC or any of its subsidiaries intends to submit an Offer, such intent must be publicly announced with the solicitation for Offers required by Article 11.3.1, and Owner notified in writing. All Offers for this work shall be delivered to Owner and publicly opened by Owner at an announced time, date, and place.

11.6 Protests. CM/GC, acting as an independent contractor, shall include in the competitive process to award all subcontracts, a protest process for Subcontractors and suppliers that are competing Offerors, which process shall be subject to approval by Owner. CM/GC shall be solely responsible for resolving the procurement protests of Subcontractors and suppliers. CM/GC shall indemnify, defend, protect and hold harmless Owner from and against any such procurement protests and resulting claims or litigation. CM/GC shall act as an independent contractor, and not an agent of Owner, in connection with any procurement protest. The provisions of this Article 11 are solely for the benefit of Owner, and do not grant any rights or remedies (including third party beneficiary rights) to any Offeror or other protester, in connection with any procurement protest or claim.

ARTICLE 12
ACCOUNTING RECORDS

12.1 Accounting; Audit Access. The CM/GC shall keep full and detailed accounts and exercise such controls as may be necessary for proper financial management under the Contract; the accounting and control systems shall be satisfactory to Owner. Owner and Owner's representatives, and auditors, shall be afforded reasonable and regular access to the CM/GC's records, books, correspondence, instructions, drawings, receipts, subcontracts, purchase orders, vouchers, memoranda and other

data relating to the Contract, and the CM/GC shall preserve these for a period of three years after final payment, or for such longer period as may be required by law.

12.2 Periodic and Final Audits. Owner may, at its discretion, perform periodic audits of the Cost of the Work and any other reimbursable costs associated with the Project. Owner intends to conduct a final audit of reimbursable costs prior to the Contract closeout. The CM/GC shall cooperate fully with Owner in the performance of such audits. Disputes over audit findings or conclusions shall be subject to the process set forth in Article 14.4.

ARTICLE 13
PROGRESS PAYMENTS

13.1 Integration with Reynolds School District General Conditions. The requirements of this Article 13 and Article 14 are in addition to, and not in lieu of, the requirements of Section E of the Reynolds School District General Conditions. In the event of conflict between the provisions of Articles 13 and 14 and Section E, the provision more favorable to Owner shall control. Without limitation, the provisions of Articles 13.3 and 13.4 shall control over the corresponding provisions of Section E.2.5 of the Reynolds School District General Conditions.

13.2 Progress Payments. Based upon applications for payment submitted pursuant to Section E of the Reynolds School District General Conditions, Owner shall make progress payments on account of the Preconstruction Fee, Cost of the Work, and associated CM/GC Fee, less 5% retainage, to the CM/GC as provided below and elsewhere in the Contract Documents.
A progress payment shall not be considered acceptance or approval of any Work or waiver of any defects therein.

13.3 Percentage of Completion. Applications for payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the application for payment. The percentage of completion shall be the lesser of (i) the percentage of that portion of the Work which has actually been completed; or (ii) the percentage obtained by dividing (a) the expense that has actually been incurred by the CM/GC on account of that portion of the Work for which the CM/GC has made or intends to make actual payment prior to the next application for payment by (b) the share of the GMP allocated to that portion of the Work in the Schedule of Values.

13.4 Calculation of Payment. Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

(a) Take that portion of the GMP properly allocable to completed Work as determined by multiplying the percentage of completion of each portion of the Work under the Schedule of Values by the share of the GMP allocated to that portion of the Work in the Schedule of Values. Pending final determination of cost to the Owner of changes in the Work, amounts not in

dispute shall be included;

(b) Add that portion of the GMP properly allocable to materials and equipment delivered and suitably stored and otherwise in compliance with Section E.2.3 of the Reynolds School District General Conditions;

(c) Add the CM/GC's Fee. The portion of the CM/GC's Fee payable shall be an amount that bears the same ratio to CM/GC Fee as sum of the amounts in the two preceding Clauses bears to the estimated probable Cost of the Work described in Article 6.1.2, but in no event causing total CM/GC Fee payments to exceed the total CM/GC Fee;

(d) Subtract the aggregate of previous payments made by and retained by the Owner;

(e) Subtract the shortfall, if any, indicated by the documentation required to substantiate prior applications for payment, or resulting from errors subsequently discovered by the Owner in such documentation;

(f) Subtract any amounts for which the Owner's Authorized Representative has withheld or denied payment as provided in the Contract Documents; and

(g) Subtract 5% retainage on the entire progress payment.

ARTICLE 14
FINAL PAYMENT

14.1 Final Payment Accounting. CM/GC shall submit to Owner a final detailed accounting of the Cost of the Work together with CM/GC's final application for payment.

14.2 Calculation of Final Payment. The amount of the final payment shall be calculated as follows:

14.2.1 Take the sum of the CM/GC Fee, plus the Preconstruction Fee, plus the actual Cost of the Work substantiated by the CM/GC's final accounting. Said sum shall not exceed the GMP.

14.2.2 Subtract amounts, if any, for which the Owner's Authorized Representative withholds, in whole or in part, approval of payment.

14.2.3 Subtract the aggregate of previous payments made by Owner to CM/GC. If the aggregate of previous payments made by Owner exceeds the amount due the CM/GC, the CM/GC shall reimburse the difference to Owner within 30 Days with interest at the rate applicable to Owner payments under the Reynolds School District General Conditions.

14.3 Final Payment Review. Owner or its accountants will review and report in writing on the CM/GC's final accounting within 30 Days after delivery of the final

accounting by the CM/GC. Based upon such Cost of the Work as Owner or Owner's accountants report to be substantiated by the CM/GC's final accounting, and provided the other conditions of the Contract have been met, the Owner's Authorized Representative will, within 10 Days after receipt of the written report of Owner's accountants, either issue to Owner an approval of CM/GC's final application for payment with a copy to the CM/GC or notify the CM/GC and Owner in writing of the Owner's Authorized Representative's reasons for withholding approval of any part of the application for payment, which disapproval shall include Owner's Authorized Representative's estimate of the amount that is due the CM/GC under the application for payment.

14.4 Payment Disputes. If Owner's accountants report the Cost of the Work as substantiated by the CM/GC's final accounting to be less than claimed by the CM/GC or if Owner's Authorized Representative declines to approve any duly submitted payment request by CM/GC, the CM/GC shall be entitled to demand a review by the Owner's highest contracting authority of the disputed amount. Such demand shall be made by the CM/GC within 30 Days after the CM/GC's receipt of a copy of the rejection of the application for payment; failure to demand additional review within this 30-Day period shall result in the substantiated amount reported by Owner's accountants becoming binding on the CM/GC. In addition, If Owner or any other state agency performs a subsequent audit of the Cost of the Work and determines any item therein to have been unsubstantiated or that CM/GC was otherwise overpaid, CM/GC shall have 30 Days after delivery of request for reimbursement by Owner to demand additional review by Owner's highest contracting authority; failure to make such demand within this 30 Day period shall result in the requested reimbursement becoming unconditionally due and payable by CM/GC. If CM/GC timely submits a protest to the Agency's highest contracting authority, CM/GC's Claim shall be subject to the claims review process in Section D.3 of the Reynolds School District General Conditions. Pending a final resolution, Owner shall pay the CM/GC the amount of the application for payment approved by the Owner's Authorized Representative.

14.5 Effect of Payment. Neither approval of an application for payment, a progress payment, release of retainage, final payment, or partial or entire use or occupancy of the Project by the Owner shall constitute acceptance of work not conforming to the Contract Documents, or waiver of the right to assert overpayment.

ARTICLE 15

TERMINATION OR SUSPENSION

15.1 Owner's Right to Terminate Prior to Execution of GMP Amendment. Prior to execution by both parties of the GMP Amendment, the Owner may terminate the Contract at any time without cause. Upon such termination, the amount to be paid to the CM/GC shall not exceed the Preconstruction Fee payable to the date of termination, together with amounts payable for Early Work if an Early Work Amendment has been executed. If Owner terminates for convenience during the Preconstruction Phase, Owner shall be entitled to copies of, and shall have the right to use, all work product of CM/GC and its Subcontractors performed to the date of termination, and CM/GC shall deliver copies of the same to Owner on request.

15.2 **Owner's Termination for Convenience after GMP Amendment**. After the GMP Amendment is executed by both parties, the Contract may be terminated by Owner without penalty for convenience pursuant to Section J.5 of the Reynolds School District General Conditions in which case CM/GC shall be entitled to payment of the amount stated in Article 15.1, together with the actual Cost of the Work completed, plus the CM/GC's Fee prorated based on the actual Cost of the Work completed prior to the date of termination, but in any event not in excess of the GMP.

15.3 **Owner's Termination for Cause.** In the event of termination of this Agreement by Owner for cause pursuant to Section J.4 of the Reynolds School District General Conditions, the amount, if any, to be paid to the CM/GC after application of the Reynolds School District General Conditions and Owner's rights at law shall not exceed the amount the CM/GC would be entitled to receive under Article 15.2.

15.4 **CM/GC Termination for Cause**. CM/GC acknowledges that disputes regarding payments and Change Orders may occur as part of the CM/GC process, and that Owner's declining to pay disputed amounts shall not be grounds for suspension of the Work or termination for cause by CM/GC. If CM/GC terminates the Contract for Owner's material breach, the amount to be paid to CM/GC shall not exceed the amount CM/GC would have been entitled to receive under Article 13 above through termination and demobilization from the Project, with the CM/GC Fee prorated based on the actual Cost of the Work through the date of termination.

15.5 **Assignment of Subcontracts**. Each subcontract and supply contract for any portion of the Work is hereby irrevocably assigned by the CM/GC to the Owner, provided that such assignment is effective only after termination of the Contract by the Owner, and only for those subcontracts and supply contracts which the Owner accepts by notifying the Subcontractor/supplier and CM/GC in writing. For those subcontracts and supply contracts accepted by Owner, if the Work has been suspended for more than 30 Days, the Subcontractor's/supplier's compensation shall be equitably adjusted for increases in cost resulting from the suspension. CM/GC shall include a provision in each subcontract and supply agreement whereby the Subcontractor/supplier acknowledges Owner's rights under this Article 15.5. With respect to any subcontracts/supply contracts that are not accepted by Owner, the provisions of Section J.6.1 of the Reynolds School District General Conditions shall apply.

ARTICLE 16
REPRESENTATIONS, WARRANTIES AND CERTIFICATIONS

16.1 **Representations and Warranties.** CM/GC represents and warrants to Owner as of the effective date of the Contract:

16.1.1 it is qualified to do business as a licensed general contractor under the laws of the State of Oregon, and has all requisite corporate power and corporate authority to carry on its business as now being conducted;

16.1.2 it has full corporate power and corporate authority to enter into and perform the Contract and to consummate the transactions contemplated hereby; CM/GC has duly

and validly executed and delivered this CM/GC Contract to Owner and that the Contract constitutes the legal, valid and binding obligation of CM/GC, enforceable against CM/GC in accordance with its terms, except as enforceability may be limited or affected by applicable bankruptcy, insolvency, reorganization, moratorium or other similar laws affecting creditors' rights generally and by general principles of equity (regardless of whether enforceability is considered in a proceeding in equity or at law);

16.1.3 CM/GC's execution and delivery of this CM/GC Contract and the consummation of the transactions contemplated hereby will not conflict with or result in a material breach of any terms or provisions of, or constitute a material default under, (i) CM/GC's Articles of Incorporation or Bylaws; (ii) any note, bond, mortgage, indenture, license, lease, contract, commitment, agreement or other instrument or obligation to which CM/GC is a party or by which CM/GC may be bound; or (iii) any statute, order, writ, injunction, decree, rule or regulation applicable to CM/GC;

16.1.4 no material consent, approval, authorization, declaration or other order of, or registration or filing with, any court or regulatory authority or any third person is required for the valid execution, delivery and performance of the Contract by CM/GC or its consummation of the transactions contemplated hereby;

16.1.5 there is no action, proceeding, suit, investigation or inquiry pending that questions the validity of the Contract or that would prevent or hinder the consummation of the transactions contemplated hereby; and

16.1.6 the CM/GC's Project Manager and Assistant Project Manager identified in Article 4 are duly appointed representatives and each has the authority to bind the CM/GC to any and all duties, obligations and liabilities under the Contract Documents and any Amendments thereto.

16.2 Tax Compliance Certification. The individual signing on behalf of CM/GC hereby certifies and swears under penalty of perjury that s/he is authorized to act on behalf of CM/GC, she/he has authority and knowledge regarding CM/GC's payment of taxes, and to the best of her/his knowledge, CM/GC is not in violation of any Oregon tax laws. For purposes of this certification, "Oregon tax laws" are those tax laws listed in ORS 305.380(4), namely ORS Chapters 118, 314, 316, 317, 318, 320, 321 and 323 and Sections 10 to 20, Chapter 533, Oregon Laws 1981, as amended by Chapter 16, Oregon Laws 1982 (first special session); the elderly rental assistance program under ORS 310.630 to 310.706; and any local taxes administered by the Oregon Department of Revenue under ORS 305.620.

ARTICLE 17
MISCELLANEOUS

17.1 Headings. The headings used in this CM/GC Contract are solely for convenience of reference, are not part of the Contract and are not to be considered in construing or interpreting the Contract.

17.2 Merger. The Contract Documents constitute the entire contract between the parties. No waiver, consent, modification or change of terms of the Contract shall bind either party unless in writing and signed by both parties. Such waiver, consent,

modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding the Contract. CM/GC, by signature of its representative, hereby acknowledges that it has read the Contract, understands it and agrees to be bound by its terms and conditions.

17.3 Exemption from Competitive Bidding. The parties acknowledge that the Contract has been awarded under an exemption from competitive bidding requirements pursuant to ORS 279C.335, as authorized by the Reynolds School District School Board.

17.4 Checklist. In addition to the sample draft contract and conditions, it is further understood that any contract between the parties must meet the checklist requirements of OAR 137-049-200(1)(c) and all those items are hereby incorporated herein. This means that the eventual contract for the project must meet the following statutory requirements:

(A) Prompt payment to all Persons supplying labor or material; contributions to Industrial Accident Fund; liens and withholding taxes (ORS 279C.505(1));

(B) Demonstrate that an employee drug testing program is in place (ORS 279C.505(2));

(C) If the Contract calls for demolition Work described in ORS 279C.510(1), a condition requiring the Contractor to salvage or recycle construction and demolition debris, if feasible and cost-effective;

(D) If the Contract calls for lawn or landscape maintenance, a condition requiring the Contractor to compost or mulch yard waste material at an approved site, if feasible and cost effective (ORS 279C.510(2);

(E) Payment of claims by public officers (ORS 279C.515(1));

(F) Contractor and first-tier subcontractor liability for late payment on Public Improvement Contracts pursuant to ORS 279C.515(2), including the rate of interest;

(G) Person's right to file a complaint with the Construction Contractors Board for all Contracts related to a Public Improvement Contract (ORS 279C.515(3));

(H) Hours of labor in compliance with ORS 279C.520;

(I) Environmental and natural resources regulations (ORS 279C.525);

(J) Payment for medical care and attention to employees (ORS 279C.530(1));

(K) A Contract provision substantially as follows: "All employers, including Contractor, that employ subject workers who work under this Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each

of its subcontractors complies with these requirements." (ORS 279C.530(2));

(L) Maximum hours, holidays and overtime (ORS 279C.540);

(M) Time limitation on claims for overtime (ORS 279C.545);

(N) Prevailing wage rates (ORS 279C.800 to 279C.870);

(O) BOLI Public Works bond (ORS 279C.830(2));

(P) Retainage (ORS 279C.550 to 279C.570);

(Q) Prompt payment policy, progress payments, rate of interest (ORS279C.570);

(R) Contractor's relations with subcontractors (ORS 279C.580);

(S) Notice of claim (ORS 279C.605);

(T) Contractor's certification of compliance with the Oregon tax laws in accordance with ORS 305.385; and

(U) Contractor's certification that all subcontractors performing Work described in ORS 701.005(2) (i.e., construction Work) will be registered with the Construction Contractors Board or licensed by the State Landscape Contractors Board in accordance with ORS 701.035 to 701.055 before the subcontractors commence Work under the Contract.

(V) Pursuant to ORS 279C.830(2), a provision stating that the Contractor and every subcontractor must have a Public Works bond filed with the Construction Contractors Board before starting Work on the project, unless otherwise exempt. This bond is in addition to performance bond and payment bond requirements. See BOLI rule at OAR 839-025-0015.

THIS CM/GC CONTRACT is executed in four original copies of which one is to be delivered to the CM/GC, and the remainder to Owner.

CM/GC:

Name of Firm:

Address:

CM/GC's Federal Tax I.D. #:

Construction Contractor's Board Registration

No.:

_____

Signature of Authorized Representative of CM/GC
Title
Date

OWNER:

REYNOLDS SCHOOL DISTRICT SCHOOL BOARD

_____

Signature of Reynolds School District School Board Representative
Title
Date

APPENDIX C **EXHIBIT A**

REYNOLDS SCHOOL DISTRICT

GENERAL CONDITIONS

FOR PUBLIC IMPROVEMENT CONTRACTS

Adopted by Reynolds School District from the
State of Oregon for use on the new Fairview Replacement Elementary School

NOTICE TO STATE AGENCIES AND PUBLIC IMPROVEMENT CONTRACTORS

January 1, 2012 Edition – Modified by RSD July 1, 2016

Changes to the General Conditions (including any additions, deletions or substitutions) should only be made by Supplemental General Conditions, unless the General Conditions are specifically modified in the Public Improvement Agreement (which has a higher order of precedence under Section A.3 of the General Conditions). The text of these General Conditions should not otherwise be altered.

NOTE: THE FOLLOWING GENERAL CONDITIONS HAVE BEEN REVIEWED AS TO FORM BY THE OREGON DEPARTMENT OF JUSTICE. THE LEGAL SUFFICIENCY AND APPROVAL REQUIREMENTS OF ORS 291.047 ARE STILL APPLICABLE FOR INDIVIDUAL PROCUREMENTS OF STATE AGENCIES, UNLESS AN EXEMPTION HAS BEEN GRANTED PURSUANT TO THAT STATUTE AND ADMINISTRATIVE RULES AT OAR CHAPTER 137, DIVISION 45.

STATE OF OREGON
GENERAL CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS
JANUARY 1, 2012, modified by Reynolds School District July 1, 2016

TABLE OF SECTIONS

SECTION K
CONTRACT CLOSE-OUT

K.1 RECORD DRAWINGS
K.2 OPERATION AND MAINTENANCE MANUALS
K.3 AFFIDAVIT/RELEASE OF LIENS AND CLAIMS
K.4 COMPLETION NOTICES
K.5 TRAINING
K.6 EXTRA MATERIALS
K.7 ENVIRONMENTAL CLEAN-UP
K.8 CERTIFICATE OF OCCUPANCY
K.9 OTHER CONTRACTOR RESPONSIBILITIES
K.10 SURVIVAL

SECTION L
LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

L.1 LAWS TO BE OBSERVED
L.2 FEDERAL AGENCIES
L.3 STATE AGENCIES
L.4 LOCAL AGENCIES

STATE OF OREGON
GENERAL CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS
("General Conditions")

SECTION A
GENERAL PROVISIONS

A.1 DEFINITION OF TERMS

In the Contract Documents the following terms shall be as defined below:

ARCHITECT/ENGINEER, means the Person appointed by the Owner to make drawings and specifications and, to provide contract administration of the Work contemplated by the Contract to the extent provided herein or by supplemental instruction of Owner (under which Owner may delegate responsibilities of the Owner's Authorized Representative to the Architect/Engineer), in accordance with ORS Chapter 671 (Architects) or ORS Chapter 672 (Engineers) and administrative rules adopted thereunder.

CHANGE ORDER, means a written order issued by the Owner's Authorized Representative to the Contractor requiring a change in the Work within the general scope of the Contract Documents, issued under the changes provisions of Section D.1 including Owner's written change directives as well as changes reflected in a writing executed by the parties to this Contract and, if applicable, establishing a Contract Price or Contract Time adjustment for the changed Work.

CLAIM, means a demand by Contractor pursuant to Section D.3 for review of the denial of Contractor's initial request for an adjustment of Contract terms, payment of money, extension of Contract Time or other relief, submitted in accordance with the requirements and within the time limits established for review of Claims in these General Conditions.

CONTRACT, means the written agreement between the Owner and the Contractor comprised of the Contract Documents which describe the Work to be done and the obligations between the parties.

CONTRACT DOCUMENTS, means the Solicitation Document and addenda thereto, the State of Oregon Public Improvement Agreement Form, General Conditions, Supplemental General Conditions, if any, the accepted Offer, Plans, Specifications, amendments and Change Orders.

CONTRACT PERIOD, as set forth in the Contract Documents, means the total period of time beginning with the issuance of the Notice to Proceed and concluding upon Final Completion.

CONTRACT PRICE, means the total of the awarded Offer amount, as increased or decreased by the price of approved alternates and Change Orders.

CONTRACT TIME, means any incremental period of time allowed under the Contract to complete any portion of the Work as reflected in the project schedule.

CONTRACTOR, means the Person awarded the Contract for the Work contemplated.

DAYS, are calendar days, including weekdays, weekends and holidays, unless otherwise specified.

DIRECT COSTS, means, unless otherwise provided in the Contract Documents, the cost of materials, including sales tax, cost of delivery; cost of labor, including social security, old age and unemployment insurance, and fringe benefits required by agreement or custom; worker's compensation insurance; project specific insurance (including, without limitation, Builder's Risk Insurance and Builder's Risk Installation Floater); bond premiums, rental cost of equipment, and machinery required for execution of the work; and the additional costs of field personnel directly attributable to the Work.

FINAL COMPLETION, means the final completion of all requirements under the Contract, including Contract Closeout as described in Section K but excluding Warranty Work as described in Section I.2, and the final payment and release of all retainage, if any, released.

FORCE MAJEURE, means an act, event or occurrence caused by fire, riot, war, acts of God, nature, sovereign, or public enemy, strikes, freight embargoes or any other act, event or occurrence that is beyond the control of the party to this Contract who is asserting Force Majeure.

NOTICE TO PROCEED, means the official written notice from the Owner stating that the Contractor is to proceed with the Work defined in the Contract Documents. Notwithstanding the Notice to Proceed, Contractor shall not be authorized to proceed with the Work until all initial Contract requirements, including the Contract, performance bond and payment bond, and certificates of insurance, have been fully executed and submitted to Owner in a suitable form.

OFFER, means a bid in connection with an invitation to bid and a proposal in connection with a request for proposals.

OFFEROR, means a bidder in connection with an invitation to bid and a proposer in connection with a request for proposals.

OVERHEAD, means those items which may be included in the Contractor's markup (general and administrative expense and profit) and that shall not be charged as Direct Cost of the Work, including without limitation such Overhead expenses as wages or salary of personnel above the level of foreman (i.e., superintendents and project managers), expenses of Contractor's offices at the job site (e.g. job trailer) including expenses of personnel staffing the job site office, and Commercial General Liability Insurance and

Automobile Liability Insurance.

OWNER, means the State of Oregon acting by and through the governmental entity identified in the Solicitation Document.

OWNER'S AUTHORIZED REPRESENTATIVE, means those individuals identified in writing by the Owner to act on behalf of the Owner for this project. Owner may elect, by written notice to Contractor, to delegate certain duties of the Owner's Authorized Representative to more than one party, including without limitation, to an Architect/Engineer. However, nothing in these General Conditions is intended to abrogate the separate design professional responsibilities of Architects under ORS Chapter 671 or of Engineers under ORS Chapter 672.

PERSON, means an entity doing business as a sole proprietorship, a partnership, a joint venture, a corporation, a limited liability company or partnership, or any other entity possessing the legal capacity to contract.

PLANS, means the drawings which show the location, type, dimensions, and details of the Work to be done under the Contract.

PUNCHLIST, means the list of Work yet to be completed or deficiencies which need to be corrected in order to achieve Final Completion of the Contract.

RECORD DOCUMENT, means the as-built Plans, Specifications, testing and inspection records, product data, samples, manufacturer and distributor/supplier warranties evidencing transfer to Owner, operational and maintenance manuals, shop drawings, Change Orders, correspondence, certificate(s) of occupancy, and other documents listed in Subsection B.9.1 of these General Conditions, recording all Services performed.

SOLICITATION DOCUMENT, means an invitation to bid or request for proposal or request for quotes.

SPECIFICATION, means any description of the physical or functional characteristics of the Work, or of the nature of a supply, service or construction item. Specifications may include a description of any requirement for inspecting, testing or preparing a supply, service or construction item for delivery and the quantities or qualities of materials to be furnished under the Contract. Specifications generally will state the results or products to be obtained and may, on occasion, describe the method and manner of doing the work to be performed. Specifications may be incorporated by reference and/or may be attached to the Contract.

SUBCONTRACTOR, means a Person having a direct contract with the Contractor, or another Subcontractor, to perform one or more items of the Work.

SUBSTANTIAL COMPLETION, means the date when the Owner accepts in writing the construction, alteration or repair of the improvement to real property or any designated portion thereof as having reached that state of completion when it may be used or occupied for its intended purpose. Substantial Completion of facilities with operating systems occurs only after thirty (30) continuous Days of successful, trouble-free operation of the operating systems as provided in Section K.4.2.

SUBSTITUTIONS, means items that in function, performance, reliability, quality, and general configuration are the same or better than the product(s) specified. Approval of any substitute item shall be solely determined by the Owner's Authorized Representative. The decision of the Owner's Authorized Representative is final.

SUPPLEMENTAL GENERAL CONDITIONS, means those conditions that remove from, add to, or modify these General Conditions. Supplemental General Conditions may be included in the Solicitation Document or may be a separate attachment to the Contract.

WORK, means the furnishing of all materials, equipment, labor, transportation, services and incidentals necessary to successfully complete any individual item or the entire Contract and the carrying out of duties and obligations imposed by the Contract Documents.

A.2 SCOPE OF WORK

The Work contemplated under this Contract includes all labor, materials, transportation, equipment and services for, and incidental to, the completion of all construction work in connection with the project described in the Contract Documents. The Contractor shall perform all Work necessary so that the project can be legally occupied and fully used for the intended use as set forth in the Contract Documents.

A.3 INTERPRETATION OF CONTRACT DOCUMENTS

A.3.1 Unless otherwise specifically defined in the Contract Documents, words which have well-known technical meanings or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings. Contract Documents are intended to be complementary. Whatever is called for in one, is interpreted to be called for in all. However, in the event of conflicts or discrepancies among the Contract Documents, interpretations will be based on the following descending order of precedence:

1. Contract amendments and Change Orders, with those of later date having precedence over those of an earlier date;
2. The Supplemental General Conditions;
3. The State of Oregon Public Improvement Agreement Form;
4. The General Conditions
5. The Plans and Specifications

6. The Solicitation Document and any addenda thereto;

7. The accepted Offer.

A.3.2 In the case of an inconsistency between Plans and Specifications or within either document not clarified by addendum, the better quality or greater quantity of Work shall be provided in accordance with the Owner or Owner's Authorized Representative's interpretation in writing.

A.3.3 If the Contractor finds discrepancies in, or omissions from the Contract Documents, or if the Contractor is in doubt as to their meaning, the Contractor shall at once notify the Owner or Owner's Authorized Representative. Matters concerning performance under, and interpretation of requirements of, the Contract Documents will be decided by the Owner's Authorized Representative, who may delegate that duty in some instances to the Architect/Engineer. Responses to Contractor's requests for interpretation of Contract Documents will be made in writing by Owner's Authorized Representative (or the Architect/Engineer) within any time limits agreed upon or otherwise with reasonable promptness.

Interpretations and decisions of the Owner's Authorized Representative (or Architect/Engineer) will be consistent with the intent of and reasonably inferable from the Contract Documents. Contractor shall not proceed without direction in writing from the Owner's Authorized Representative (or Architect/Engineer).

A.3.4 References to standard specifications, manuals, codes of any technical society, organization or association, to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, laws or regulations in effect in the jurisdiction where the project is occurring on the first published date of the Solicitation Document, except as may be otherwise specifically stated.

A.4 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE

A.4.1 It is understood that the Contractor, before submitting an Offer, has made a careful examination of the Contract Documents; has become fully informed as to the quality and quantity of materials and the character of the Work required; and has made a careful examination of the location and conditions of the Work and the sources of supply for materials. The Owner will in no case be responsible for any loss or for any unanticipated costs that may be suffered by the Contractor as a result of the Contractor's failure to acquire full information in advance in regard to all conditions pertaining to the Work. No oral agreement or conversation with any officer, agent, or personnel of the Owner, or with the Architect/Engineer either before or after the execution of this Contract, shall affect or modify any of the terms or obligations herein contained.

A.4.2 Should the Plans or Specifications fail to particularly describe the materials, kind of goods, or details of construction of any aspect of the Work, Contractor shall have the duty to make inquiry of the Owner and Architect/Engineer as to what is required prior to performance of the Work. Absent Specifications to the contrary, the materials or processes that would normally be used to produce first quality finished Work shall be considered a part of the Contract requirements.

A.4.3 Any design errors or omissions noted by the Contractor shall be reported promptly to the Owner's Authorized Representative, including without limitation, any nonconformity with applicable laws, statutes, ordinances, building codes, rules and regulations.

A.4.4 If the Contractor believes that additional cost or Contract Time is involved because of clarifications or instructions issued by the Owner's Authorized Representative (or Architect/Engineer) in response to the Contractor's notices or requests for information, the Contractor must submit a written request to the Owner's Authorized Representative, setting forth the nature and specific extent of the request, including all time and cost impacts against the Contract as soon as possible, but no later than thirty (30) Days after receipt by Contractor of the clarifications or instructions issued. If the Owner's Authorized Representative denies Contractor's request for additional compensation, additional Contract Time, or other relief that Contractor believes results from the clarifications or instructions, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process. If the Contractor fails to perform the obligations of Sections A.4.1 to A.4.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations.

A.5 INDEPENDENT CONTRACTOR STATUS

The service or services to be performed under this Contract are those of an independent contractor as defined in ORS 670.600. Contractor represents and warrants that it is not an officer, employee or agent of the Owner.

A.6 RETIREMENT SYSTEM STATUS AND TAXES

Contractor represents and warrants that it is not a contributing member of the Public Employees' Retirement System and will be responsible for any federal or state taxes applicable to payment received under this Contract. Contractor will not be eligible for any benefits from these Contract payments of federal Social Security, employment insurance, workers' compensation or the Public Employees' Retirement System, except as a self-employed individual. Unless the Contractor is subject to backup withholding, Owner will not withhold from such payments any amount(s) to cover Contractor's federal or state tax obligations.

A.7 GOVERNMENT EMPLOYMENT STATUS

A.7.1 If this payment is to be charged against federal funds, Contractor represents and warrants that it is not currently employed by the Federal Government. This does not preclude the Contractor from holding another contract with the Federal Government.

A.7.2 Contractor represents and warrants that Contractor is not an employee of the State of Oregon for purposes of performing

Work under this Contract.

SECTION B
ADMINISTRATION OF THE CONTRACT

B.1 OWNER'S ADMINISTRATION OF THE CONTRACT

B.1.1 The Owner's Authorized Representative will provide administration of the Contract as described in the Contract Documents (1) during construction (2) until final payment is due and (3) during the one-year period for correction of Work. The Owner's Authorized Representative will act on behalf of the Owner to the extent provided in the Contract Documents, unless modified in writing in accordance with other provisions of the Contract. In performing these tasks, the Owner's Authorized Representative may rely on the Architect/Engineer or other consultants to perform some or all of these tasks.

B.1.2 The Owner's Authorized Representative will visit the site at intervals appropriate to the stage of the Contractor's operations (1) to become generally familiar with and to keep the Owner informed about the progress and quality of the portion of the Work completed, (2) to endeavor to guard the Owner against defects and deficiencies in the Work, and (3) to determine in general if Work is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. The Owner's Authorized Representative will not make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Owner's Authorized Representative will neither have control over or charge of, nor be responsible for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work.

B.1.3 Except as otherwise provided in the Contract Documents or when direct communications have been specifically authorized, the Owner and Contractor shall endeavor to communicate with each other through the Owner's Authorized Representative or designee about matters arising out of or relating to the Contract. Communications by and with the Architect/Engineer's consultants shall be through the Architect/Engineer. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner's Authorized Representative.

B.1.4 Based upon the Architect/Engineer's evaluations of the Contractor's Application for Payment, or unless otherwise stipulated by the Owner's Authorized Representative, the Architect/Engineer will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

B.2 CONTRACTOR'S MEANS AND METHODS; MITIGATION OF IMPACTS

B.2.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures.

B.2.2 The Contractor is responsible to protect and maintain the Work during the course of construction and to mitigate any adverse impacts to the project, including those caused by authorized changes, which may affect cost, schedule, or quality.

B.2.3 The Contractor is responsible for the actions of all its personnel, laborers, suppliers, and Subcontractors on the project. The Contractor shall enforce strict discipline and good order among Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of persons who are unfit or unskilled for the tasks assigned to them.

B.3 MATERIALS AND WORKMANSHIP

B.3.1 The intent of the Contract Documents is to provide for the construction and completion in every detail of the Work described. All Work shall be performed in a professional manner and unless the means or methods of performing a task are specified elsewhere in the Contract Documents, Contractor shall employ methods that are generally accepted and used by the industry, in accordance with industry standards.

B.3.2 The Contractor is responsible to perform the Work as required by the Contract Documents. Defective Work shall be corrected at the Contractor's expense.

B.3.3 Work done and materials furnished shall be subject to inspection and/or observation and testing by the Owner's Authorized Representative to determine if they conform to the Contract Documents. Inspection of the Work by the Owner's Authorized Representative does not relieve the Contractor of responsibility for the Work in accordance with the Contract Documents.

B.3.4 Contractor shall furnish adequate facilities, as required, for the Owner's Authorized Representative to have safe access to the Work including without limitation walkways, railings, ladders, tunnels, and platforms. Producers, suppliers, and fabricators shall also provide proper facilities and access to their facilities.

B.3.5 The Contractor shall furnish Samples of materials for testing by the Owner's Authorized Representative and include the cost of the Samples in the Contract Price.

B.4 PERMITS

Contractor shall obtain and pay for all necessary permits and licenses, except for those specifically excluded in the Supplemental General Conditions, for the construction of the Work, for temporary obstructions, enclosures, opening of streets for pipes, walls, utilities, environmental Work, etc., as required for the project. Contractor shall be responsible for all violations of the law, in connection with the construction or caused by obstructing streets, sidewalks or otherwise. Contractor shall give all requisite notices to public authorities. The Contractor shall pay all royalties and license fees. The Contractor shall defend all suits or claims for infringement of any patent or other proprietary rights and save harmless and blameless from loss, on account thereof, the State of Oregon, and its departments, divisions, members and employees.

B.5 COMPLIANCE WITH GOVERNMENT LAWS AND REGULATIONS

B.5.1 Contractor shall comply with all federal, state and local laws, codes, regulations and ordinances applicable to the Work and the Contract. Failure to comply with such requirements shall constitute a breach of Contract and shall be grounds for Contract termination. Without limiting the generality of the foregoing, Contractor expressly agrees to comply with the following as applicable: i) Title VI and VII of Civil Rights Act of 1964, as amended; (ii) Section 503 and 504 of the Rehabilitation Act of 1973, as amended; (iii) the Health Insurance Portability and Accountability Act of 1996; (iv) the Americans with Disabilities Act of 1990, as amended; (v) ORS Chapter 659A; as amended (vi) all regulations and administrative rules established pursuant to the foregoing laws; and (vii) all other applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations. Owner's performance under the Contract is conditioned upon Contractor's compliance with the provisions of ORS 279C.505, 279C.510, 279C.515, 279C.520, and 279C.530, which are incorporated by reference herein.

B.5.2 Contractor shall comply with all applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations; and

(a) Contractor shall not discriminate against Disadvantaged, Minority, Women or Emerging Small Business enterprises, as those terms are defined in ORS 200.005, or a business enterprise that is owned or controlled by or that employs a disabled veteran, as that term is defined in ORS 408.225**,** in the awarding of subcontracts.

(b) Contractor shall maintain, in current and valid form, all licenses and certificates required by law, regulation, or this Contract when performing the Work.

B.5.3 Unless contrary to federal law, Contractor shall certify that it shall not accept a bid from Subcontractors to perform Work as described in ORS 701.005 under this Contract unless such Subcontractors are registered with the Construction Contractors Board in accordance with ORS 701.035 to 701.055 at the time they submit their bids to the Contractor.

B.5.4 Unless contrary to federal law, Contractor shall certify that each landscape contractor, as defined in ORS 671.520(2), performing Work under this Contract holds a valid landscape contractor's license issued pursuant to ORS 671.560.

B.5.5 The following notice is applicable to Contractors who perform excavation Work. ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center at (503)232-1987.

B.5.6 Failure to comply with any or all of the requirements of B.5.1 through B.5.5 shall be a breach of Contract and constitute grounds for Contract termination. Damages or costs resulting from such noncompliance shall be the responsibility of Contractor.

B.6 SUPERINTENDENCE

Contractor shall keep on the site, during the progress of the Work, a competent superintendent and any necessary assistants who shall be satisfactory to the Owner and who shall represent the Contractor on the site. Directions given to the superintendent by the Owner's Authorized Representative shall be confirmed in writing to the Contractor.

B.7 INSPECTION

B.7.1 Owner's Authorized Representative shall have access to the Work at all times.

B.7.2 Inspection of the Work will be made by the Owner's Authorized Representative at its discretion. The Owner's Authorized Representative will have authority to reject Work that does not conform to the Contract Documents. Any Work found to be not in conformance with the Contract Documents, in the discretion of the Owner's Authorized Representative, shall be removed and replaced at the Contractor's expense. Contractor shall make or obtain at the appropriate time all tests, inspections and approvals of portions of the Work required by the Contract Documents or by laws, ordinances, rules, regulations or orders of public authorities having jurisdiction. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work. The Contractor shall give the Owner's Authorized Representative timely notice of when and where tests and inspections are to be made so that the Owner's Authorized Representative may be present for such procedures. Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Owner's Authorized Representative.

B.7.3 As required by the Contract Documents, Work done or material used without inspection or testing by the Owner's Authorized Representative may be ordered removed at the Contractor's expense.

B.7.4 If directed to do so any time before the Work is accepted, the Contractor shall uncover portions of the completed Work for inspection. After inspection, the Contractor shall restore such portions of Work to the standard required by the Contract. If the Work uncovered is unacceptable or was done without sufficient notice to the Owner's Authorized Representative, the uncovering and restoration shall be done at the Contractor's expense. If the Work uncovered is acceptable and was done with sufficient notice to the Owner's Authorized Representative, the uncovering and restoration will be paid for as a Change Order.

B.7.5 If any testing or inspection reveals failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Owner's Authorized Representative's and Architect/Engineer's services and expenses, shall be at the Contractor's expense.

B.7.6 When the United States government participates in the cost of the Work, or the Owner has an agreement with other public or private organizations, or if any portion of the Work is being performed for a third party or in close proximity to third party facilities, representatives of these organizations have the right to inspect the Work affecting their interests or property. Their right to inspect shall not make them a party to the Contract and shall not interfere with the rights of the parties of the Contract. Instructions or orders of such parties shall be transmitted to the Contractor, through the Owner's Authorized Representative.

B.8 SEVERABILITY

If any provision of this Contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular provision held to be invalid.

B.9 ACCESS TO RECORDS

B.9.1 Contractor shall keep, at all times on the Work site, one record copy of the complete Contract Documents, including the Plans, Specifications, Change Orders and addenda, in good order and marked currently to record field changes and selections made during construction, and one record copy of Shop Drawings, Product Data, Samples and similar submittals, and shall at all times give the Owner's Authorized Representative access thereto.

B.9.2 Contractor shall retain and the Owner and its duly authorized representatives shall have access to, for a period not less than ten (10) years, all Record Documents, financial and accounting records, and other books, documents, papers and records of Contractor which are pertinent to the Contract including records pertaining to Overhead and indirect costs, for the purpose of making audit, examination, excerpts and transcripts. If for any reason, any part of the Contract is involved in litigation, Contractor shall retain all such records until all litigation is resolved. The Owner and/or its agents shall continue to be provided full access to the records during litigation.

B.10 WAIVER

Failure of the Owner to enforce any provision of this Contract shall not constitute a waiver or relinquishment by the Owner of the right to such performance in the future nor of the right to enforce any other provision of this Contract.

B.11 SUBCONTRACTS AND ASSIGNMENT

B.11.1 Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound by the terms and conditions of these General Conditions, and to assume toward the Contractor all of the obligations and responsibilities which the Contractor assumes toward the Owner thereunder, unless (1) the same are clearly inapplicable to the subcontract at issue because of legal requirements or industry practices, or (2) specific exceptions are requested by Contractor and approved in writing by Owner. Where appropriate, Contractor shall require each Subcontractor to enter into similar agreements with sub-subcontractors at any level.

B.11.2 At Owner's request, Contractor shall submit to Owner prior to their execution either Contractor's form of subcontract, or the subcontract to be executed with any particular Subcontractor. If Owner disapproves such form, Contractor shall not execute the form until the matters disapproved are resolved to Owner's satisfaction. Owner's review, comment upon or approval of any such form shall not relieve Contractor of its obligations under this Agreement or be deemed a waiver of such obligations of Contractor.

B.11.3 Contractor shall not assign, sell, or transfer its rights, or delegate its responsibilities under this Contract, in whole or in part, without the prior written approval of the Owner. No such written approval shall relieve Contractor of any obligations of this Contract, and any transferee shall be considered the agent of the Contractor and bound to perform in accordance with the Contract Documents. Contractor shall remain liable as between the original parties to the Contract as if no assignment had occurred.

B.12 SUCCESSORS IN INTEREST

The provisions of this Contract shall be binding upon and shall accrue to the benefit of the parties to the Contract and their respective permitted successors and assigns.

B.13 OWNER'S RIGHT TO DO WORK

Owner reserves the right to perform other or additional work at or near the project site with other forces than those of the Contractor. If such work takes place within or next to the project site, Contractor will coordinate work with the other contractors or forces, cooperate with all other contractors or forces, carry out the Work in a way that will minimize interference and delay for all

forces involved, place and dispose of materials being used so as not to interfere with the operations of another, and join the Work with the work of the others in an acceptable manner and perform it in proper sequence to that of the others. The Owner's Authorized Representative will resolve any disagreements that may arise between or among Contractor and the other contractors over the method or order of doing all work (including the Work). In case of unavoidable interference, the Owner's Authorized Representative will establish work priority (including the Work) which generally will be in the sequence that the contracts were awarded.

B.14 OTHER CONTRACTS

In all cases and at any time, the Owner has the right to execute other contracts related to or unrelated to the Work of this Contract. The Contractor of this Contract will fully cooperate with any and all other contractors without additional cost to the Owner in the manner described in section B.13.

B.15 GOVERNING LAW

This Contract shall be governed by and construed in accordance with the laws of the State of Oregon without regard to principles of conflict of laws.

B.16 LITIGATION

Any Claim between Owner and Contractor that arises from or relates to this Contract and that is not resolved through the Claims Review Process in Section D.3 shall be brought and conducted solely and exclusively within the Circuit Court of Clackamas County for the State of Oregon; provided, however, if a Claim must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this section be construed as a waiver by the State of Oregon on any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. CONTRACTOR BY EXECUTION OF THIS CONTRACT HEREBY CONSENTS TO THE IN PERSONAM JURISDICTION OF THE COURTS REFERENCED IN THIS SECTION B.16.

B.17 ALLOWANCES

B.17.1 The Contractor shall include in the Contract Price all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct.

B.17.2 Unless otherwise provided in the Contract Documents:

(a) when finally reconciled, allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;

(b) Contractor's costs for unloading and handling at the site, labor, installation costs, Overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Price but not in the allowances;

(c) whenever costs are more than or less than allowances, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (i) the difference between actual costs and the allowances under Section B.17.2(a) and (2) changes in Contractor's costs under Section B.17.2(b).

(d) Unless Owner requests otherwise, Contractor shall provide to Owner a proposed fixed price for any allowance work prior to its performance.

B.18 SUBMITTALS, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

B.18.1 The Contractor shall prepare and keep current, for the Architect's/Engineer's approval (or for the approval of Owner's Authorized Representative if approval authority has not been delegated to the Architect/Engineer), a schedule and list of submittals which is coordinated with the Contractor's construction schedule and allows the Architect/Engineer reasonable time to review submittals. Owner reserves the right to finally approve the schedule and list of submittals. Submittals include, without limitation, Shop Drawings, Product Data, and Samples which are described below:

(a) Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor (including any sub-subcontractor), manufacturer, supplier or distributor to illustrate some portion of the Work.

(b) Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

(c) Samples are physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

B.18.2 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required by the Contract Documents the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents. Review of submittals by the Architect/Engineer is not conducted for the purpose of determining the accuracy and

completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, or for approval of safety precautions or, unless otherwise specifically stated by the Architect/Engineer, of any construction means, methods, techniques, sequences or procedures, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect/Engineer's review of the Contractor's submittals shall not relieve the Contractor of its obligations under the Contract Documents. The Architect/Engineer's approval of a specific item shall not indicate approval of an assembly of which the item is a component. Informational submittals upon which the Architect/Engineer is not expected to take responsive action may be so identified in the Contract Documents. Submittals which are not required by the Contract Documents may be returned by the Architect/Engineer without action.

B.18.3 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect/Engineer Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors. Submittals which are not marked as reviewed for compliance with the Contract Documents and approved by the Contractor may be returned by the Architect/Engineer without action.

B.18.4 By approving and submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents that the Contractor has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

B.18.5 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect/Engineer.

B.18.6 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect/Engineer's review or approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect/Engineer in writing of such deviation at the time of submittal and (i) the Architect/Engineer has given written approval to the specific deviation as a minor change in the Work, or
(ii) a Change Order has been executed by Owner authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect/Engineer's review or approval thereof.

B.18.7 In the event that Owner elects not to have the obligations and duties described under this Section B.18 performed by the Architect/Engineer, or in the event no Architect/Engineer is employed by Owner on the project, all obligations and duties assigned to the Architect/Engineer hereunder shall be performed by the Owner's Authorized Representative.

B.20 SUBSTITUTIONS

The Contractor may make Substitutions only with the consent of the Owner, after evaluation by the Owner's Authorized Representative and only in accordance with a Change Order. Substitutions shall be subject to the requirements of the bid documents. By making requests for Substitutions, the Contractor represents that the Contractor has personally investigated the proposed substitute product; represents that the Contractor will provide the same warranty for the Substitution that the Contractor would for the product originally specified unless approved otherwise; certifies that the cost data presented is complete and includes all related costs under this Contract including redesign costs, and waives all claims for additional costs related to the Substitution which subsequently become apparent; and will coordinate the installation of the accepted Substitution, making such changes as may be required for the Work to be completed in all respects.

B.21 USE OF PLANS AND SPECIFICATIONS

Plans, Specifications and related Contract Documents furnished to Contractor by Owner or Owner's Architect/Engineer shall be used solely for the performance of the Work under this Contract. Contractor and its Subcontractors and suppliers are authorized to use and reproduce applicable portions of such documents appropriate to the execution of the Work, but shall not claim any ownership or other interest in them beyond the scope of this Contract, and no such interest shall attach. Unless otherwise indicated, all common law, statutory and other reserved rights, in addition to copyrights, are retained by Owner.

B.22 FUNDS AVAILABLE AND AUTHORIZED

Owner reasonably believes at the time of entering into this Contract that sufficient funds are available and authorized for expenditure to finance the cost of this Contract within the Owner's appropriation or limitation. Contractor understands and agrees that, to the extent that sufficient funds are not available and authorized for

expenditure to finance the cost of this Contract, Owner's payment of amounts under this Contract attributable to Services performed after the last day of the current biennium is contingent on Owner receiving from the Oregon Legislative Assembly appropriations, limitations or other expenditure authority sufficient to allow Owner, in the exercise of its reasonable administrative discretion, to continue to make payments under this Contract.

B.23 NO THIRD PARTY BENEFICIARIES

Owner and Contractor are the only parties to this Contract and are the only parties entitled to enforce its terms. Nothing in this Contract gives, is intended to give, or shall be construed to give or provide any benefit or right, whether directly, indirectly, or otherwise, to third persons unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of the terms of this Contract.

SECTION C
WAGES AND LABOR

C.1 MINIMUM WAGE RATES ON PUBLIC WORKS

Contractor shall comply fully with the provisions of ORS 279C.800 through 279C.870. Documents establishing those conditions, as determined by the Commissioner of the Bureau of Labor and Industries (BOLI), are included as attachments to or are incorporated by reference in the Contract Documents. Contractor shall pay workers at not less than the specified minimum hourly rate of wage, and shall include that requirement in all subcontracts.

C.2 PAYROLL CERTIFICATION; ADDITIONAL RETAINAGE; FEE REQUIREMENTS

C.2.1 In accordance with ORS 279C.845, the Contractor and every Subcontractor shall submit written certified statements to the Owner's Authorized Representative, on the form prescribed by the Commissioner of the Bureau of Labor and Industries, certifying the hourly rate of wage paid each worker which the Contractor or the Subcontractor has employed on the project and further certifying that no worker employed on the project has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the Contract, which certificate and statement shall be verified by the oath of the Contractor or the Subcontractor that the Contractor or Subcontractor has read the certified statement, that the Contractor or Subcontractor knows the contents of the certified statement and that to the Contractor's or Subcontractor's best knowledge and belief the certified statement is true. The certified statements shall set out accurately and completely the payroll records for the prior week including the name and address of each worker, the worker's correct classification, rate of pay, daily and weekly number of hours worked, deductions made and actual wages paid. Certified statements for each week during which the Contractor or Subcontractor has employed a worker on the project shall be submitted once a month, by the fifth business day of the following month.

The Contractor and Subcontractors shall preserve the certified statements for a period of ten (10) years from the date of completion of the Contract.

C2.2 Pursuant to ORS 279C.845(7),the Owner shall retain 25 percent of any amount earned by the Contractor on this public works project until the Contractor has filed the certified statements required by section C.2.1. The Owner shall pay to the Contractor the amount retained under this subsection within 14 days after the Contractor files the required certified statements, regardless of whether a Subcontractor has failed to file certified statements.

C.2.2 Pursuant to ORS 279C.845(8), the Contractor shall retain 25 percent of any amount earned by a first- tier Subcontractor on this public works project until the first-tier Subcontractor has filed with the Owner the certified statements required by C.2.1. Before paying any amount retained under this subsection, the Contractor shall verify that the first- tier Subcontractor has filed the certified statement, Within 14 days after the first- tier Subcontractor files the required certified statement the Contractor shall pay the first-tier Subcontractor any amount retained under this subsection.

C.2.3 In accordance with statutory requirements, and administrative rules promulgated by the Commissioner of the Bureau of Labor and Industries, the fee required by ORS 279C.825(1) will be paid by Owner to the Commissioner.

C.3 PROMPT PAYMENT AND CONTRACT CONDITIONS

C.3.1 Pursuant to ORS 279C.505 and as a condition to Owner's performance hereunder, the Contractor shall:

C.3.1.1 Make payment promptly, as due, to all persons supplying to Contractor labor or materials for the prosecution of the Work provided for in this Contract.

C.3.1.2 Pay all contributions or amounts due the State Industrial Accident Fund from such Contractor or Subcontractor incurred in the performance of the Contract.

C.3.1.3 Not permit any lien or claim to be filed or prosecuted against the Owner on account of any labor or material furnished. Contractor will not assign any claims that Contractor has against Owner, or assign any sums due by Owner, to Subcontractors, suppliers, or manufacturers, and will not make any agreement or act in any way to give Subcontractors a claim or standing to make a claim against the Owner.

C.3.1.4 Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

C.3.1.5 Demonstrate that an employee drug testing program is in place as follows:

(a) Contractor represents and warrants that Contractor has in place at the time of the execution of this Contract, and shall maintain during the term of this Contract, a Qualifying Employee Drug Testing Program for its employees that includes, at a minimum, the following:

(1) A written employee drug testing policy,

(2) Required drug testing for all new Subject Employees or, alternatively, required testing of all Subject Employees every 12 months on a random selection basis, and

(3) Required testing of a Subject Employee when the Contractor has reasonable cause to believe the Subject Employee is under the influence of drugs.

A drug testing program that meets the above requirements will be deemed a "Qualifying Employee Drug Testing Program." For the purposes of this section, an employee is a "Subject Employee" only if that employee will be working on the project job site.

(b) Contractor shall require each Subcontractor providing labor for the project to:

(1) Demonstrate to the Contractor that it has a Qualifying Employee Drug Testing Program for the Subcontractor's Subject Employees, and represent and warrant to the Contractor that the Qualifying Employee Drug Testing Program is in place at the time of subcontract execution and will continue in full force and effect for the duration of the subcontract, or

(2) Require that the Subcontractor's Subject Employees participate in the Contractor's Qualifying Employee Drug Testing Program for the duration of the subcontract.

C.3.2 Pursuant to ORS 279C.515, and as a condition to Owner's performance hereunder, Contractor agrees:

C.3.2.1 If Contractor fails, neglects or refuses to pay promptly a person's claim for labor or services that the person provides to the Contractor or a Subcontractor in connection with the project as such claim becomes due, the proper officer that represents the Owner may pay the amount of the claim and charge the amount of the payment against funds due or to become due Contractor under this Contract. Paying a claim in this manner shall not relieve the Contractor or the Contractor's surety from obligation with respect to an unpaid claim.

C.3.2.2 If the Contractor or a first-tier Subcontractor fails, neglects or refuses to pay a person that provides labor or materials in connection with the public contract for a public improvement within thirty (30) Days after receiving payment from Owner or a contractor, the contractor or first-tier Subcontractor owes the person the amount due plus interest charges that begin at the end of the 10-Day period within which payment is due under ORS 279C.580(3) and that end upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580. The rate of interest on the amount due is nine percent per annum. The amount of interest may not be waived.

C.3.2.3 If the Contractor or a Subcontractor fails, neglects or refuses to pay a person that provides labor or materials in connection with the Contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580. Every contract related to this Contract must contain a similar clause.

C.3.2.4 Pursuant to ORS 279C.580, Contractor shall include in each subcontract for property or services the Contractor enters into with a first-tier Subcontractor, including a material supplier, for the purpose of performing a construction contract:

(a) A payment clause that obligates the Contractor to pay the first-tier Subcontractor for satisfactory performance under the subcontract within ten (10) Days out of amounts the Owner pays to the Contractor under the Contract;

(b) A clause that requires the Contractor to provide the first-tier Subcontractor with a standard form that the first-tier Subcontractor may use as an application for payment or as another method by which the Subcontractor may claim a payment due from the Contractor;

(c) A clause that requires the Contractor, except as otherwise provided in this paragraph, to use the same form and regular administrative procedures for processing payments during the entire term of the subcontract. The Contractor may change the form or the regular administrative procedures the Contractor uses for processing payments if the Contractor:

(1) Notifies the Subcontractor in writing at least 45 days before the date on which the Contractor makes the change; and

(2) Includes with the written notice a copy of the new or changed form or a description of the new or changed procedure.

(d) An interest penalty clause that obligates the Contractor, if the Contractor does not pay the first-tier Subcontractor within thirty (30) Days after receiving payment from Owner, to pay the first-tier Subcontractor an interest penalty on amounts due in each payment the Contractor does not make in accordance with the payment clause included in the subcontract under paragraph (a) of this subsection. Contractor or first-tier Subcontractor is not obligated to pay an interest penalty if the only reason that the Contractor or first-tier Subcontractor did not make payment when payment was due is that the Contractor or first-tier Subcontractor did not receive payment from Owner or Contractor when payment was due. The interest penalty applies to the period that begins on the day after the required payment date and that ends on the date on which the amount due is paid; and is computed at the rate specified in ORS 279C.515(2).

(e) A clause which requires each of Contractor's Subcontractors to include, in each of their contracts with lower-tier Subcontractors or suppliers, provisions to the effect that the first- tier Subcontractor shall pay its lower-tier Subcontractors and suppliers in accordance with the provisions of paragraphs (a) through (d) above and requiring each of their Subcontractors and suppliers to include such clauses in their subcontracts and

supply contracts.

C.3.3 All employers, including Contractor, that employ subject workers who work under this contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its Subcontractors complies with these requirements.

C.4 PAYMENT FOR MEDICAL CARE

Pursuant to ORS 279C.530, and as a condition to Owner's performance hereunder, Contractor shall promptly, as due, make payment to any person, partnership, association or corporation furnishing medical, surgical, and hospital care or other needed care and attention, incident to sickness or injury, to the employees of such Contractor, all sums of which the Contractor agrees to pay for such services and all moneys and sums which the Contractor has collected or deducted from the wages of personnel pursuant to any law, contract or agreement for the purpose of providing or paying for such services.

C.5 HOURS OF LABOR

As a condition to Owner's performance hereunder, Contractor shall comply with ORS 279C.520, as amended from time to time and incorporated herein by this reference:

Pursuant to ORS 279C.520 and as a condition to Owner's performance hereunder, no person shall be employed to perform Work under this Contract for more than ten (10) hours in any one day or forty (40) hours in any one week, except in cases of necessity, emergency or where public policy absolutely requires it. In such instances, Contractor shall pay the employee at least time and a half pay:

C.5.1 For all overtime in excess of eight (8) hours a day or forty (40) hours in any one week when the work week is five consecutive Days,
Monday through Friday; or

C.5.2 For all overtime in excess of ten (10) hours a day or forty (40) hours in any one week when the work week is four consecutive Days,
Monday through Friday; and

C.5.3 For all Work performed on Saturday and on any legal holiday specified in ORS 279C.540.

This section C.5 will not apply to Contractor's Work under this Contract if Contractor is currently a party to a collective bargaining agreement with any labor organization.

This Section C.5 shall not excuse Contractor from completion of the Work within the time required under this Contract.

SECTION D
CHANGES IN THE WORK

D.1 CHANGES IN WORK

D.1.1 Contractor shall utilize owner provided Construction Change Issues Log (CCI Log) via smartsheet.com to manage all changes to the GMP contingency with owner authorization. The terms of this Contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever without prior written approval of the Owner's Authorized Representative, and then only in a manner consistent with the Change Order provisions of this Section D.1 and after any necessary approvals required by public contracting laws have been obtained. Otherwise, a formal contract amendment is required, which shall not be effective until its execution by the parties to this Contract and all approvals required by public contracting laws have been obtained.

D.1.2 It is mutually agreed that changes in Plans, quantities, or details of construction are inherent in the nature of construction and may be necessary or desirable during the course of construction. Within the general scope of this Contract, the Owner's Authorized Representative may at any time, without notice to the sureties and without impairing the Contract, require changes consistent with this Section D.1. All Change Order Work shall be executed under the conditions of the Contract Documents. Such changes may include, but are not limited to:

(a) Modification of specifications and design.

(b) Increases or decreases in quantities.

(c) Increases or decreases to the amount of Work.

(d) Addition or elimination of any Work item.

(e) Change in the duration of the project.

(f) Acceleration or delay in performance of Work.

(g) Deductive changes.

Deductive changes are those that reduce the scope of the Work, and shall be made by mutual agreement whenever feasible, as determined by Owner. In cases of suspension or partial termination under Section J, Owner reserves the right to unilaterally impose a deductive change an to self-perform such Work, for which the provisions of B.13. (Owner's Right to Do Work) shall then apply.

Adjustments in compensation shall be made under the provisions of D.1.3, in which costs for deductive changes shall be based upon a Direct Costs adjustment together with the related percentage markup specified for profit, Overhead and other indirect costs, unless otherwise agreed to by Owner.

D.1.3. The Owner and Contractor agree that Change Order Work shall be administered and compensated accordingly to the following:

a). Unit pricing may be utilized at the Owner's option when unit prices or solicitation alternates were provided that established the cost for additional Work, and a binding obligation exists under the Contract on the parties covering the terms and conditions of the additional Work.

b). If the Owner elects not to utilize unit pricing, or in the event that unit pricing is not available or appropriate, f*ixed pricing* may be used for Change Order Work. In fixed pricing the basis of payments or total price shall be agreed upon in writing between the parties to the Contract, and shall be established before the Work is done whenever feasible. The mark-ups set forth in D.1.3(c) shall be utilized by the parties as a guide in establishing fixed pricing, and will not be exceeded by Owner without adequate justification. Cost and price data relating to Change Orders shall be supplied by Contractor to Owner upon request, but Owner shall be under no obligation to make such requests.

c). In the event that unit pricing and fixed pricing are not utilized, then Change Order Work shall be performed on a *cost reimbursement* basis for Direct Costs. Such Work shall be compensated on the basis of the actual, reasonable and allowable cost of labor, equipment, and material furnished on the Work performed. In addition, the following markups shall be added to the Contractor's or Subcontractor's Direct Costs as full compensation for profit, Overhead and other indirect costs for Work directly performed with the Contractor's or Subcontractor's own forces:

On Labor..... 10%
On Equipment..... 5%
On Materials..... 5%

When Change Order Work under D.1.3(c) is invoiced by an authorized Subcontractor at any level, each ascending tier Subcontractor or Contractor will be allowed a 5% supplemental mark-up on each piece of subcontract Work covered by such Change Order.

Payments made to the Contractor shall be complete compensation for Overhead, profit, and all costs that were incurred by the Contractor or by other forces furnished by the Contractor, including Subcontractors for Change Order Work. Owner may establish a maximum cost for Change Order Work under this Section D.1.3(c), which shall not be exceeded or reimbursement without additional written authorization from Owner, Contractor shall not re be required to complete such Change Order Work without additional authorization.

D.1.4 Any necessary adjustment of Contract Time that may be required as a result of a Change Order must be agreed upon by the parties before the start of the Change Order Work unless Owner's Authorized Representative authorizes Contractor to start the Work before agreement on Contract Time adjustment. Contractor shall submit any request for additional compensation (and additional Contract Time if Contractor was authorized to start Work before an adjustment of Contract Time was approved) as soon as possible but no later than thirty (30) Days after receipt of the Change Order. If Contractor's request for additional compensation or adjustment of Contract Time is not made within the thirty (30) day time limit, Contractor's requests pertaining to that Change Order are barred. The thirty (30) day time limit for making requests shall not be extended for any reason, including without limitation Contractor's claimed inability to determine the amount of additional compensation or adjustment of Contract Time, unless an extension is grated in writing by Owner. If the Owner's Authorized Representative denies Contractor's request for additional compensation or adjustment of Contract Time, Contractor may proceed to file a Claim under Section D.3. Claims Review Process. No other reimbursement, compensation, or payment will be made, except as provided in Section D.1.5 for impact claims.

D. 1.5 If any Change Order Work under Section D.1.3 causes an increase or decrease in the Contractor's cost of, or the Contract Time required for the performance of any other part of the Work under this Contract, the Contractor must submit a written request to the Owner's Authorized Representative, setting forth the nature and specific extent of the request, including all time and cost impacts against the Contract as soon as possible, but no later than thirty (30) Days after receipt of the Change Order by Contractor.

The thirty (30) day time limit applies to claims of Subcontractors, suppliers, or manufacturers that may be affected by the Change Order and that request additional compensation or an extension of Contract Time to perform; Contractor has responsibility for contacting its Subcontractors, suppliers, or manufacturers within the thirty (30) day time limit, and including their requests with Contractor's requests. If the request involves Work to be completed by Subcontractors, or materials to be furnished by suppliers or manufacturers, such requests shall be submitted to the Contractor in writing with full analysis and justification for the compensation and additional Contract Time requested. The Contractor will analyze and evaluate the merits of the requests submitted by Subcontractors, suppliers, and manufacturers to Contractor prior to including those requests and Contractor's analysis and evaluation of those requests with Contractor's requests for additional compensation or Contract Time that Contractor submits to the Owner's Authorized Representative. Failure of Subcontractors, suppliers, manufacturers or others to submit their requests to Contractor for inclusion with Contractor's requests submitted to

Owner's Authorized Representative within the time period and by the means described in this section shall constitute a waiver of these Subcontractor claims. The Owner's Authorized Representative and the Owner will not consider direct requests or claims from Subcontractors, suppliers, manufacturers or others not a party to this Contract. The consideration of such requests and claims under this section does not give any person, not a party to the Contract the right to bring a claim against the State of Oregon, whether in this claims process, in litigation, or in any dispute resolution process.

If the Owner's Authorized Representative denies the Contractor's request for additional compensation or an extension of Contract Time, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process.

D.1.6 No request or Claim by the Contractor for additional costs or an extension of Contract Time shall be allowed if made after receipt of final payment application under this Contract. Contractor agrees to submit its final payment application within ninety (90) days after Substantial Completion, unless written extension is granted by Owner. Contractor shall not delay final payment application for any reason, including without limitation nonpayment of Subcontractors, suppliers, manufacturers or others not a party to this Contract, or lack of resolution of a dispute with Owner or any other person of matters arising out of or relating to the Contract. If Contractor fails to submit its final payment application within ninety (90) days after Substantial Completion, and Contractor has not obtained written extension by Owner, all requests or Claims for additional costs or an extension of Contract Time shall be waived.

D.1.7 It is understood that changes in the Work are inherent in construction of this type. The number of changes, the scope of those changes, and the effect they have on the progress of the original Work cannot be defined at this time. The Contractor is notified that numerous changes may be required and that there will be no compensation made to the contractor directly related to the number of changes. Each change will be evaluated for extension of contract time and increase or decrease in compensation based on its own merit.

D.2. DELAYS

D.2.1 Delays in construction include "Avoidable Delays", which are defined in Section D.2.1.1, and "Unavoidable Delays", which are defined in Section D.2.1.2. The effect of Avoidable Delays is described in Section D.2.2 and the effect of Unavoidable Delays is described in Section D.2.3.

D.2.1.1 Avoidable Delays include any delays other than unavoidable Delays, and include delays that otherwise would be considered Unavoidable Delays but that:

(a) Could have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its Subcontractors.

(b) Affect only a portion of the Work and do not necessarily prevent or delay the prosecution of other parts of the Work nor the completion of the whole Work within the Contract Time.

(c) Do not impact activities on the accepted critical path schedule.

(d) Are associated with the reasonable interference of other contractors employed by the Owner that do not necessarily prevent the completion of the whole Work within the Contract Time.

D.2.1.2 Unavoidable Delays include delays other than Avoidable Delays that are:

(a) Caused by any actions of the Owner, Owner's Authorized Representative, or any other employee or agent of the Owner, or by separate contractor employed by the Owner.

(b) Caused by any site conditions which differ materially from what was represented in the Contract Documents or from conditions that would normally be expected to exist and be inherent to the construction activities defined in the Contract Documents. The Contractor shall notify the Owner's Authorized Representative immediately of differing site conditions before the area has been disturbed. The Owner's Authorized Representative will investigate the area and make a determination as to whether or not the conditions differ materially from either the conditions stated in the Contract Documents or those which could reasonably be expected in execution of this particular Contract. If Contractor and the Owner's Authorized Representative agree that a differing site condition exists, any additional compensation or additional Contract Time will be determined based on the process set forth in Section D.1.5 for Change Order Work. If the Owner's Authorized Representative disagrees that a differing site condition exists and denies Contractor's request for additional compensation or Contract Time, Contractor may proceed to file a Claim under Section D.3, Claims Review Process Caused by Force Majeure acts, events or occurrences that could not have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its Subcontractors.

(c) Caused by adverse weather conditions. Any adverse weather conditions must be substantiated by documentary evidence that weather conditions were abnormal for the specific time period claimed, could not have been anticipated by the Contractor, and adversely impacted the project in a manner that could not be avoided by rescheduling the Work or by implementing measures to protect against the weather so that the Work could proceed. A rain, windstorm, high water, or other natural phenomenon for the specific locality of the Work, which might reasonably have been anticipated from the previous 10- year historical records of the general locality of the Work, shall not be construed as abnormal. The parties agree that rainfall greater than the following levels cannot be reasonably anticipated:

(i) Daily rainfall equal to, or greater than,

0.50 inch during a month when the monthly rainfall exceeds the normal monthly average by twenty-five percent (25 %) or more.

(ii) daily rainfall equal to, or greater than, 0.75 inch at any time.

The Office of the Environmental Data Service of the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce nearest the project site shall be considered the official agency of record for weather information.

D.2.2 Except as otherwise provided in ORS 279C.315, Contractor shall not be entitled to additional compensation or additional Contract Time for Avoidable Delays.

D.2.3 In the event of Unavoidable Delays, based on principles of equitable adjustment, Contractor may be entitled to the following:

(a) Contractor may be entitled to additional compensation or additional Contract Time, or both, for Unavoidable Delays described in Section D.2.1.2 (a) and (b).

(b) Contractor may be entitled to additional Contract Time for Unavoidable Delays described in Section D.2.1.2(c) and (d).

In the event of any requests for additional compensation or additional Contract Time, or both, as applicable, arising under this Section D.2.3 for Unavoidable Delays, other than requests for additional compensation or additional Contract Time for differing site conditions for which a review process is established under Section D.2.1.2 (b), Contractor shall submit a written notification of the delay to the Owner's Authorized Representative within two (2) Days of the occurrence of the cause of the delay. This written notification shall state the cause of the potential delay, the project components impacted by the delay, and the anticipated additional Contract Time or the additional compensation, or both, as applicable, resulting from the delay. Within seven (7) Days after the cause of the delay has been mitigated, or in no case more than thirty (30) Days after the initial written notification, the Contractor shall submit to the Owner's Authorized Representative, a complete and detailed request for additional compensation or additional Contract Time, or both, as applicable, resulting from the delay.
If the Owner's Authorized Representative denies Contractor's request for additional compensation or adjustment of Contract Time, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process.

If Contractor does not timely submit the notices required under this Section D.2., then unless otherwise prohibited by law, Contractor's Claim shall be barred.

D.3 CLAIMS REVIEW PROCESS

D.3.1 All Contractor Claims shall be referred to the Owner's Authorized Representative for review. Contractor's Claims, including Claims for additional compensation or additional Contract Time, shall be submitted in writing by Contractor to the Owner's Authorized Representative within five (5) Days after a denial of Contractor's initial request for an adjustment of Contract terms, payment of money, extension of Contract Time or other relief, provided that such initial request has been submitted in accordance with the requirements and within the time limits established in these General Conditions. Within twenty one (21) Days after the initial Claim, Contractor shall submit to the Owner's Authorized Representative, a complete and detailed description of the Claim (the "Detailed Notice") that includes all information required by Section D.3.2. Unless the Claim is made in accordance with these time requirements, it shall be waived.

D.3.2 The Detailed Notice of the Claim shall be submitted in writing by Contractor and shall include a detailed, factual statement of the basis of the Claim, pertinent dates, Contract provisions which support or allow the Claim, reference to or copies of any documents which support the Claim, the dollar value of the Claim, and the Contract Time extension requested for the Claim. If the Claim involves Work to be completed by Subcontractors, the Contractor will analyze and evaluate the merits of the Subcontractor claim prior to forwarding it and that analysis and evaluation to the Owner's Authorized Representative. The Owner's Authorized Representative and the Owner will not consider direct claims from Subcontractors, suppliers, manufacturers, or others not a party to this Contract. Contractor agrees that it will make no agreement, covenant, or assignment, nor will it commit any other act that will permit or assist any Subcontractor, supplier, manufacturer, or other to directly or indirectly make a claim against Owner.

D.3.3 The Owner's Authorized Representative will review all Claims and take one or more of the following preliminary actions within ten (10) Days of receipt of the Detailed Notice of a Claim: (1) request additional supporting information from the Contractor; (2) inform the Contractor and Owner in writing of the time required for adequate review and response; (3) reject the Claim in whole or in part and identify the reasons for rejection; (4) based on principles of equitable adjustment, recommend approval of all or part of the Claim; or (5) propose an alternate resolution.

D.3.4 The Owner's Authorized Representative's decision shall be final and binding on the Contractor unless appealed by written notice to the Owner within fifteen (15) Days of receipt of the decision. The Contractor must present written documentation supporting the Claim within fifteen (15) Days of the notice of appeal. After receiving the appeal documentation, the Owner shall review the materials and render a decision within thirty (30) Days after receiving the appeal documents.

D.3.5 The decision of the Owner shall be final and binding unless the Contractor delivers to the Owner its requests for mediation, which shall be a non-binding process, within fifteen (15) Days of the date of the Owner's decision. The mediation process will be considered to have commenced as of the date the Contractor delivers the request. Both parties acknowledge and agree that participation in mediation is a prerequisite to commencement of litigation of any disputes relating to the Contract.

Both parties further agree to exercise their best efforts in good faith to resolve all disputes within sixty (60) Days of the commencement of the mediation through the mediation process set forth herein.

In the event that a lawsuit must be filed within this sixty (60) day period in order to preserve a cause of action, the parties agree that notwithstanding the filing, they shall proceed diligently with the mediation to its conclusion prior to actively prosecuting the lawsuit, and shall seek from the Court in which the lawsuit is pending such stays or extensions, including the filing of an answer, as may be necessary to facilitate the mediation process. Further, in the event settlements are reached on any issues through mediation, the parties agree to promptly submit the appropriate motions and orders documenting the settlement to the Court for its signature and filing.

D.3.6 The mediator shall be an individual mutually acceptable to both parties, but in the absence of agreement each party shall select a temporary mediator and the temporary mediators shall jointly select the permanent mediator. Each party shall pay its own costs for the time and effort involved in mediation. The cost of the mediator shall be split equally between the two parties. Both parties agree to exercise their best effort in good faith to resolve all disputes in mediation. Participation in mediation is a mandatory requirement of both the Owner and the Contractor. The schedule, time and place for mediation will be mutually acceptable, or, failing mutual agreement, shall be as established by the mediator. The parties agree to comply with Owner's administrative rules governing the confidentiality of mediation, if any, and shall execute all necessary documents to give effect to such confidentiality rules. In any event, the parties shall not subpoena the mediator or otherwise require the mediator to produce records, notes or work product, or to testify in any future proceedings as to information disclosed or representations made in the course of mediation, except to the extent disclosure is required by law.

D.3.7 Owner may at any time and at its discretion issue a construction change directive adding to, modifying or reducing the scope of Work. Contractor and Owner shall negotiate the need for any additional compensation or additional Contract Time related to the change, subject to the procedures for submitting requests or Claims for additional compensation or

additional Contract Time established in this Section
D. Unless otherwise directed by Owner's Authorized Representative, Contractor shall proceed with the Work while any request or Claim is pending, including but not limited to, a request or Claim for additional compensation or additional Contract Time resulting from Work under a Change Order or construction change directive. Regardless of the review period or the final decision of the Owner's Authorized Representative, the Contractor shall continue to diligently pursue the Work as identified in the Contract Documents. In no case is the Contractor justified or allowed to cease Work without a written stop work order from the Owner or Owner's Authorized Representative.

SECTION E
PAYMENTS

E.1 SCHEDULE OF VALUES

The Contractor shall submit, at least ten (10) Days prior to submission of its first application for progress payment, a schedule of values ("Schedule of Values") for the contracted Work. This schedule will provide a breakdown of values for the contracted Work and will be the basis for progress payments. The breakdown will demonstrate reasonable, identifiable, and measurable components of the Work. Unless objected to by the Owner's Authorized Representative, this schedule shall be used as the basis for reviewing Contractor's applications for payment. If objected to by Owner's Authorized Representative, Contractor shall revise the schedule of values and resubmit the same for approval of Owner's Authorized Representative.

E.2 APPLICATIONS FOR PAYMENT

E.2.1 Owner shall make progress payments on the Contract monthly as Work progresses. Payments shall be based upon estimates of Work completed and the Schedule of Values. All payments shall be approved by the Owner's Authorized Representative. A progress payment shall not be considered acceptance or approval of any Work or waiver of any defects therein. Owner shall pay to Contractor interest on the progress payment, not including retainage, due the Contractor. The interest shall commence thirty (30) Days after the receipt of invoice ("application for payment") from the Contractor or fifteen (15) Days after the payment is approved by the Owner's Authorized Representative, whichever is the earlier date. The rate of interest shall equal three times the discount rate on 90-day commercial paper in effect at the Federal Reserve Bank in the Federal Reserve district that includes Oregon on the date that is thirty (30) Days after receipt of the application for payment from the Contract or fifteen (15) Days after the payment is approved by the Owner, whichever is the earlier date, but the rate of interest shall not exceed thirty (30) percent. Notwithstanding the foregoing, in instances when an application for payment is filled out incorrectly, or when there is any defect or impropriety in any submitted application or when there is a good faith dispute, Owner shall so notify the Contractor within fifteen (15) Days stating the reason or reasons the application for payment is defective or improper or the reasons for the dispute. A defective or improper application for payment, if corrected by the Contractor within seven (7) Days of being notified by the Owner, shall not cause a payment to be made later than specified in this section unless interest is also paid. Accrual of interest will be postponed when payment on the principal is delayed because of disagreement between the Owner and the Contractor.

Owner reserves the right, instead of requiring the Contractor to correct or resubmit a defective or improper application for payment, to reject the defective or improper portion of the application for payment and pay the remainder of the application for payment that is correct and proper.

Owner, upon written notice to the Contractor, may elect to make payments to the Contractor only by means of Electronic Funds Transfers (EFT) through Automated Clearing House (ACH) payments. If Owner makes this election, the Contractor will be required to arrange to receive EFT/ACH payments.

E.2.2 Contractor shall submit to the Owner's Authorized Representative, an application for each payment and, if required, receipts or other vouchers showing payments for materials and labor, including payments to Subcontractors. Contractor shall include, in its application for payment, a schedule of the percentages of the various parts of the Work completed, based on the Schedule of Values which shall aggregate to the payment application total, and shall include, on the face of each copy thereof, a certificate in substantially the following form:

"I, the undersigned, hereby certify that the above bill is true and correct, and the payment therefore, has not been received.

Signed:

-

"

E.2.3 Generally, applications for payment will be accepted only for materials that have been installed. Under special conditions, applications for payment for stored materials will be accepted at Owner's sole discretion. Such a payment, if made, will be subject to the following conditions:

(a) The request for stored material shall be submitted at least thirty (30) Days in advance of the application for payment on which it appears. Applications for payment shall be entertained for major equipment, components or expenditures only.

(b) The Contractor shall submit applications for payment showing the quantity and cost of the material stored.

(c) The material shall be stored in a bonded warehouse and Owner's Authorized Representative shall be granted the right to access the material for the purpose of removal or inspection at any time during the Contract Period.

(d) The Contractor shall name the Owner as co- insured on the insurance policy covering the full value of the property while in the care and custody of the Contractor until it is installed. A certificate noting this coverage shall be issued to the Owner.

(e) Payments shall be made for materials only. The submitted amount of the application for payment shall be reduced by the cost of

transportation and for the cost of an inspector to check the delivery at out of town storage sites. The cost of said inspection shall be borne solely by the Contractor.

(f) Within sixty (60) Days of the application for payment, the Contractor shall submit evidence of payment covering the material stored.

(g) Payment for stored materials shall in no way indicate acceptance of the materials or waive any rights under this Contract for the rejection of the Work or materials not in conformance with the Contract Documents.

(h) All required documentation must be submitted with the respective application for payment.

E.2.4 The Owner reserves the right to withhold all or part of a payment, or may nullify in whole or part any payment previously made, to such extent as may be necessary in the Owner's opinion to protect the Owner from loss because of:

(a) Work that is defective and not remedied, or that has been demonstrated or identified as failing to conform with the Contract Documents,

(b) third party claims filed or evidence reasonably indicating that such claims will likely be filed unless security acceptable to the Owner is provided by the Contractor;

(c) failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment (in which case Owner may issue checks made payable jointly to Owner and such unpaid persons under this provision, or directly to Subcontractors and suppliers at any level under Section C.3.2.1);

(d) reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Price;

(e) damage to the Owner or another contractor;

(f) reasonable evidence that the Work will not be completed within the Contract Time required by the Contract, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay;

(g) failure to carry out the Work in accordance with the Contract Documents; or

(h) assessment of liquidated damages, when withholding is made for offset purposes.

E.2.5 Subject to the provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

(a) Take that portion of the Contract Price properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the total Contract Price allocated to that portion of the Work in the Schedule of Values, less retainage as provided in Section E.5. Pending final determination of cost to the Owner of changes in the Work, no amounts for changes in the Work can be included in application for payment until the Contract Price has been adjusted by Change Order;

(b) Add that portion of the Contract Price properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner pursuant to

Section E.2.3, suitably stored off the site at a location agreed upon in writing), less retainage as provided in Section E.5;

(c) Subtract the aggregate of previous payments made by the Owner; and

(d) Subtract any amounts for which the Owner's Authorized Representative has withheld or nullified payment as provided in the Contract Documents.

E.2.6 Contractor's applications for payment may not include requests for payment for portions of the Work for which the Contractor does not intend to pay to a Subcontractor or material supplier.

E.2.7 The Contractor warrants to Owner that title to all Work covered by an application for payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an application for payment all Work for which payments are received from the Owner shall be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

E.2.8 If Contractor disputes any determination by Owner's Authorized Representative with regard to any application for payment, Contractor nevertheless shall continue to prosecute expeditiously the Work. No payment made hereunder shall be or be construed to be final acceptance or approval of that portion of the Work to which such partial payment relates or shall relieve Contractor of any of its obligations hereunder.

E.3 PAYROLL CERTIFICATION REQUIREMENT

Payroll certification is required before payments are made on the Contract. Refer to Section C.2 for this information.

E.4 DUAL PAYMENT SOURCES

Contractor shall not be compensated for Work performed under this Contract from any state agency other than the agency that is a party to this Contract.

E.5 RETAINAGE

E.5.1 Retainage shall be withheld and released in accordance with ORS 279C.550 to 279C.580:

E.5.1.1 Owner may reserve as retainage from any progress payment an amount not to exceed five percent of the payment. As Work progresses, Owner may reduce the amount of the retainage and may eliminate retainage on any remaining monthly Contract payments after 50 percent of the Work under the Contract is completed if, in the Owner's opinion, such Work is progressing satisfactorily. Elimination or reduction of retainage shall be allowed only upon written application by the Contractor, which application

shall include written approval of Contractor's surety; except that when the Work is 97-1/2 percent completed the Owner may, at its discretion and without application by the Contractor, reduce the retained amount to 100 percent of the value of the Work remaining to be done. Upon receipt of written application by the Contractor, Owner shall respond in writing within a reasonable time.

E.5.1.2 In accordance with the provisions of ORS 279C.560 and any applicable administrative rules, unless the Owner finds in writing that accepting a bond, security or other instrument described in options (a) or (c) below poses an extraordinary risk that is not typically associated with the bond, security or instrument, the Owner will approve the Contractor's written request:

(a) to be paid amounts which would otherwise have been retained from progress payments where Contractor has deposited acceptable bonds, securities or other instruments of equal value with Owner or in a custodial account or other mutually-agreed account satisfactory to Owner, with an approved bank or trust company to be held in lieu of the cash retainage for the benefit of Owner. Interest or earnings on the bonds, securities or other instruments shall accrue to the Contractor. The Contractor shall execute and provide such documentation and instructions respecting the bonds, securities and other instruments as the Owner may require to protect its interests. To be permissible the bonds, securities and other instruments must be of a character approved by the Director of the Oregon Department of Administrative Services, including but not limited to:

(i) Bills, certificates, notes or bonds of the United States.
(ii) Other obligations of the United States or agencies of the United States.
(iii) Obligations of a corporation wholly owned by the federal government.
(iv) Indebtedness of the Federal National Mortgage Association.
(v) General obligation bonds of the State of Oregon or a political subdivision of the State of Oregon.
(vi) Irrevocable letters of credit issued by an insured institution, as defined in ORS 706.008.

(b) that retainage be deposited in an interest bearing account, established through the State Treasurer for state agencies, in a bank, savings bank, trust company or savings association for the benefit of Owner, with interest from such account accruing to the Contractor; or

(c) that the Contractor be allowed, with the approval of the Owner, to deposit a surety bond for the benefit of Owner, in a form acceptable to Owner, in lieu of all or a portion of funds retained, or to be retained. Such bond and any proceeds

therefrom shall be made subject to all claims and liens in the manner and priority as set forth for retainage under ORS 279C.550 to ORS 279C.625.

Where the Owner has accepted the Contractor's election of any of the options above, Owner may recover from Contractor any additional costs incurred through such election by reducing Contractor's final payment. Where the Owner has agreed to Contractor's request to deposit a surety bond under option (c), Contractor shall accept like bonds from Subcontractors and suppliers on the project from which Contractor has required retainage.

E.5.1.3 The retainage held by Owner shall be included in and paid to the Contractor as part of the final payment of the Contract Price. The Owner shall pay to Contractor interest at the rate of one and one-half percent per month on the final payment due contractor, interest to commence thirty (30) Days after the Work under the Contract has been completed and accepted and to run until the date Contractor shall notify Owner in writing when the Contractor considers the Work complete and Owner shall, within fifteen (15) Days after receiving the written notice, either accept the Work or notify the Contractor of Work yet to be performed on the Contract. If Owner does not within the time allowed notify the contractor of Work yet to be performed to fulfill contractual obligations, the interest provided by this subsection shall commence to run thirty (30 Days after the end of the 15-Day period.

E.5.1.4 In accordance with the provisions of ORS 279C.560, if the Owner accepts bonds, securities or other instruments deposited as provided in paragraphs (a) and (c) of subsection E.5.1.2., the Owner shall reduce the moneys held as retainage in an amount equal to the value of the bonds, securities and other instruments and pay the amount of the reduction to the Contractor in accordance with ORS 279C.570.

E.5.1.5 Contractor agrees that if Contractor elects to reserve a retainage from any progress payment due to any Subcontractor or supplier, such retainage shall not exceed five percent of the payment, and such retainage withheld from Subcontractors and suppliers shall be subject to the same terms and conditions stated in Subsection E.5 as apply to Owner's retainage from any progress payment due to Contractor. Provided, however, if in accordance with the provisions of ORS 279C.560 the Contractor has deposited bonds, securities or other instruments or has elected to have the Owner deposit accumulated retainage in an interest-bearing account, the Contractor shall comply with the provisions of ORS 701.435 respecting the deposit of bonds, securities or other instruments by Subcontractors and the sharing of interest earnings with Subcontractors and suppliers.

E.5.2 As provided subsections C.2.2 and C.2.3, additional retainage in the amount of 25% of amounts earned shall be withheld and released in accordance with ORS 279C.845(7) when the Contractor fails to file certified statements as required by section C.2.1.

E.6. FINAL PAYMENT

E.6.1 Upon completion of all the Work under this Contract, the Contractor shall notify the Owner's Authorized Representative, in writing, that Contractor has completed Contractor's part of the Contract and shall request final payment. Upon receipt of such notice the Owner's Authorized Representative will submit to the Owner a recommendation as to acceptance of the completed Work and the final estimate of the amount due the Contractor. If the Work is not acceptable, Owner will notify Contractor within fifteen (15) Days of Contractor's request for final payment. Upon approval of this final estimate by the Owner and compliance by the Contractor with provisions in Section K. 3 AFFIDAVIT/RELEASE OF LIENS AND CLAIMS and other provisions as may be applicable, the Owner shall pay to the Contractor all monies due under the provisions of these Contract Documents.

E.6.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Owner's Authorized Representative (1) a notarized affidavit/release of liens and claims in a form satisfactory to Owner that states that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner_ have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least thirty (30) Days prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

E.6.3 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final application for payment

SECTION F
JOB SITE CONDITIONS

F.1 USE OF PREMISES

Contractor shall confine equipment, storage of materials and operation of Work to the limits indicated by Contract Documents, law, ordinances, permits or directions of the Owner's Authorized Representative. Contractor shall follow the Owner's Authorized Representative's instructions regarding use of premises, if any.

F.2 PROTECTION OF WORKERS, PROPERTY, AND THE PUBLIC

F.2.1 Contractor shall maintain continuous and adequate protection of all of the Work from damage, and shall protect the Owner's Authorized Representative, workers and property from injury or loss arising in connection with this Contract. Contractor shall remedy acceptably to the Owner, any damage, injury, or loss, except such as may be directly due to errors in the Contract Documents or caused by authorized representatives or personnel of the Owner. Contractor shall adequately protect adjacent property as provided by law and the Contract Documents.

F.2.2 Contractor shall take all necessary precautions for the safety of all personnel on the job site, and shall comply with the Contract Documents and all applicable provisions of federal, state and municipal safety laws and building codes to prevent accidents or injury to persons on, about or adjacent to the premises where the Work is being performed. Contractor shall erect and properly maintain at all times, as required by the conditions and progress of the Work, all necessary safeguards for protection of workers and the public against any hazards created by construction. Contractor shall designate a responsible employee or associate on the Work site, whose duty shall be the prevention of accidents. The name and position of the person designated shall be reported to the Owner's Authorized Representative. The Owner's Authorized Representative has no responsibility for Work site safety. Work site safety is the responsibility of the Contractor.

F.2.3 Contractor shall not enter upon private property without first obtaining permission from the property owner or its duly authorized representative. Contractor shall be responsible for the preservation of all public and private property along and adjacent to the Work contemplated under the Contract and shall use every precaution necessary to prevent damage thereto. In the event the Contractor damages any property, the Contractor shall at once notify the property owner and make, or arrange to make, full restitution. Contractor shall immediately and in writing, report to the Owner's Authorized Representative, all pertinent facts relating to such property damage and the ultimate disposition of the claim for damage.

F.2.4 Contractor is responsible for protection of adjacent work areas including impacts brought about by activities, equipment, labor, utilities, and materials on the site.

F.2.5 Contractor shall at all times direct its activities in such a manner as to minimize adverse effects on the environment. Handling of all materials will be conducted so no release will occur that may pollute or become hazardous.

F.2.6 In an emergency affecting the safety of life or of the Work or of adjoining property, the Contractor, without special instruction or authorization from the Owner's Authorized Representative, shall act reasonably to prevent threatened loss or injury, and shall so act, without appeal, if instructed by the Owner's Authorized Representative. Any compensation claimed by the Contractor on account of emergency work shall be determined in accordance with Section D.

F.3 CUTTING AND PATCHING

F.3.1 Contractor shall be responsible for coordinating all cutting, fitting, or patching of the Work to make its several parts come together properly and fit to receive or be received by work of other contractors or Subcontractors shown upon, or reasonably implied by, the Contract Documents.

F.3.2 Contractor shall be responsible for restoring all cut, fitted, or patched surfaces to an original condition; provided, however, that if a different condition is specified in the Contract Documents, then Contractor shall be responsible for restoring such surfaces to the condition specified in the Contract Documents.

F.4 CLEANING UP

From time to time as may be ordered by the Owner the Contractor shall, at its own expense, clean up and remove all refuse and unused materials of any kind resulting from the Work. If Contractor fails to do so within twenty-four hours after notification by the Owner the work may be done by others and the cost charged to the Contractor and deducted from payment due the Contractor.

F.5 ENVIRONMENTAL CONTAMINATION

F.5.1 Contractor will be held responsible for and shall indemnify, defend (with counsel of Owner's choice) and hold harmless Owner from and against any costs, expenses, damages, claims, and causes of action, (including attorney fees), or any of them, resulting from all spills, releases, discharges, leaks and disposal of environmental pollution, including storage, transportation, and handling during the performance of the Contract which occur as a result of, or are contributed by, the negligence or actions of Contractor or its personnel, agents, or Subcontractors or any failure to perform in accordance with the Contract Documents (except to the extent otherwise void under ORS 30.140). Nothing in this section F.5.1 shall limit Contractor's responsibility for obtaining insurance coverages required under Section G.3 of these General Conditions, and Contractor shall take no action that would void or impair such coverages

F.5.1.1 Contractor agrees to promptly dispose of such spills, releases, discharge or leaks to the satisfaction of Owner and proper regulatory agencies in a manner that complies with applicable federal, state, and local laws and regulations. Cleanup shall be at no cost to the Owner and be performed by properly qualified personnel.

F.5.1.2 Contractor shall obtain the Owner's written consent prior to bringing onto the Work site any (i) environmental pollutants or (ii) hazardous substances or materials, as the same or reasonably similar terms are used in any applicable federal, state, or local statutes, rules or ordinances. Notwithstanding such written consent from the Owner, the Contractor, at all times, shall:

(a) properly handle, use and dispose of all environmental pollutants and hazardous substances or materials brought onto

the Work site, in accordance with all applicable federal, state, or local statutes, rules, or ordinances;

(b) be responsible for any and all spills, releases, discharges, or leaks of (or from) environmental pollutants or hazardous substances or materials which Contractor has brought onto the Work site; and

(c) promptly clean up, without cost to the Owner, such spills, releases, discharges, or leaks to the Owner's satisfaction and in compliance with applicable federal, state, or local statutes, rules or ordinances.

F.5.2 Contractor shall report all reportable quantity releases to applicable federal, state, and local regulatory and emergency response agencies. Reportable quantities are found in 40 CFR Part 302, Table 302.4 for hazardous substances and in OAR 340-142-0050 for all products addressed therein. Upon discovery, regardless of quantity, Contractor must telephonically report all releases to the Owner. A written follow-up report shall be submitted to Owner within 48 hours of the telephonic report. Such written report shall contain, as a minimum:

(a) Description of items released (identity, quantity, manifest no., and all other documentation required by law.)

(b) Whether amount of items released is EPA/DEQ reportable, and, if so, when it was reported.

(c) Exact time and location of release, including a description of the area involved.

(d) Containment procedures initiated.

(e) Summary of communications about the release Contractor has had with members of the press or State officials other than Owner.

(f) Description of cleanup procedures employed or to be employed at the site, including disposal location of spill residue.

(g) Personnel injuries, if any, resulting from, or aggravated by, the release.

F.6 ENVIRONMENTAL CLEAN-UP

F.6.1 Unless disposition of environmental pollution is specifically a part of this Contract, or was caused by the Contractor (reference F.5 Environmental Contamination), Contractor shall immediately notify Owner of any hazardous substance(s) which Contractor discovers or encounters during performance of the Work required by this Contract. "Hazardous substance(s)" means any hazardous, toxic and radioactive materials and those substances defined as “hazardous substances,” “hazardous materials,” “hazardous wastes,” “toxic substances,” or other similar designations in any federal, state, or local law, regulation, or ordinance, including without limitation asbestos, polychlorinated biphenyl (PCB), or petroleum, and any substances, materials or wastes regulated in 40 CFR, Part 261 and defined as hazardous in 40 CFR S 261.3. In addition to notifying Owner of any hazardous substance(s) discovered or encountered, Contractor shall immediately cease working in any particular area of the project where a hazardous substance(s) has been discovered or encountered if continued work in such area would present a risk or danger to the health or wellbeing of Contractor's or any Subcontractor's work force.

F.6.2 Upon being notified by Contractor of the presence of hazardous substance(s) on the project site, Owner shall arrange for the proper disposition of such hazardous substance(s).

F.7 FORCE MAJEURE

A party to this Contract shall not be held responsible for delay or default due to Force Majeure acts, events or occurrences unless they could have been avoided by the exercise of reasonable care, prudence, foresight, and diligence by that party. The Owner may terminate this Contract upon written notice after determining that delay or default caused by Force Majeure acts, events or occurrences will reasonably prevent successful performance of the Contract.

SECTION G
INDEMNITY, BONDING, AND INSURANCE

G.1 RESPONSIBILITY FOR DAMAGES / INDEMNITY

G.1.1 Contractor shall be responsible for all damage to property, injury to persons, and loss, expense, inconvenience, and delay that may be caused by, or result from, the carrying out of the Work to be done under this Contract, or from any act, omission or neglect of the Contractor, its Subcontractors, personnel, or agents.

G.1.2 To the fullest extent permitted by law, Contractor shall indemnify, defend (with counsel approved by Owner) and hold harmless the Owner, Owner’s Authorized Representative, Architect/Engineer, Architect/Engineer’s consultants, and their respective officers, directors, agents, employees, partners, members, stockholders and affiliated companies (collectively "Indemnitees") from and against all liabilities, damages, losses, claims, expenses (including reasonable attorney fees), demands and actions of any nature whatsoever which arise out of, result from or are related to, (a) any damage, injury, loss, expense, inconvenience or delay described in this Section G.1.2, (b) any accident or occurrence which happens or is alleged to have happened in or about the project site or any place where the Work is being performed, or in the vicinity of either, at any time prior to the time the Work is fully completed in all respects,
(c) any failure of the Contractor to observe or perform any duty or obligation under the Contract Documents which is to be observed or performed by the Contractor, or any breach of any agreement, representation or warranty of the Contractor contained in the Contract Documents or in any subcontract,
(d) the negligent acts or omissions of the Contractor, a Subcontractor or anyone directly or indirectly employed by them or any

one of them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder (except to the extent otherwise void under ORS 30.140), and (e) any lien filed upon the project or bond claim in connection with the Work. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section G.1.2.

G.1.3 In claims against any person or entity indemnified under this Section G.1.2 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section G.1.2 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

G.2 PERFORMANCE AND PAYMENT SECURITY; PUBLIC WORKS BOND

G.2.1 When the Contract Price is $100,000 or more (or $50,000 or more in the case of Contracts for highways, bridges and other transportation projects) the Contractor shall furnish and maintain, a performance bond in a sum equal to the Contract Price, and a separate payment bond also in a sum equal to the Contract Price. The bonds may be required if the Contract Price is less than the above thresholds, if required by the Contract Documents. This obligation must be in effect at all times during the Contract Period and shall remain in full force and effect until the expiration of any statutes of limitation or repose applicable to claims against contractor arising out of this Contract.

G.2.2 Bond forms furnished by the Owner and notarized by awarded Contractor's surety company authorized to do business in Oregon are the only acceptable forms of performance and payment security, unless otherwise specified in the Contract Documents.

G.2.3 Before execution of the Contract Contractor shall file with the Construction Contractors Board, and maintain in full force and effect, the separate public works bond required by Oregon Laws 2005, Chapter 360, and OAR 839-025-0015, unless otherwise exempt under those provisions. The Contractor shall also include in every subcontract a provision requiring the Subcontractor to have a public works bond filed with the Construction Contractors Board before starting Work, unless otherwise exempt, and shall verify that the Subcontractor has filed a public works bond before permitting the Subcontractor to start Work.

G.3 INSURANCE

G.3.1 Primary Coverage: Insurance carried by Contractor under this Contract shall be the primary coverage and non-contributory with any other insurance and self- insurance, and the Owner's insurance is excess and solely for damages or losses for which the Owner is responsible. The coverages indicated are minimums unless otherwise specified in the Contract Documents.

G.3.2 Workers' Compensation: All employers, including Contractor, that employ subject workers who work under this contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. This shall include Employer's Liability Insurance with coverage limits of not less than $100,000 for each accident. Contractors who perform the Work without the assistance or labor of any employee need not obtain such coverage if the Contractor certifies so in writing. Contractor shall ensure that each of its Subcontractors complies with these requirements. The Contractor shall require proof of such Workers' Compensation by receiving and keeping on file a certificate of insurance from each Subcontractor or anyone else directly employed by either the Contractor or its Subcontractors.

G.3.3 Builder's Risk Insurance:

G.3.3.1 Builder's Risk: During the term of this Contract, for new construction the Contractor shall obtain and keep in effect Builder's Risk insurance on an all risk form, including earthquake and flood, for an amount equal to the full amount of the Contract. Any deductible shall not exceed $50,000 for each loss, except the earthquake and flood deductible shall not exceed 2 percent of each loss or $50,000, whichever is more. The policy will include as loss payees the Owner, the Contractor and its Subcontractors as their interests may appear.

G.3.3.2 Builder's Risk Installation Floater: For other than new construction the Contractor shall obtain and keep in effect during the term of this Contract, a Builder's Risk Installation Floater for coverage of the Contractor's labor, materials and equipment to be used for completion of the Work performed under this Contract. The minimum amount of coverage to be carried shall be equal to the full amount of the Contract. This insurance shall include as loss payees the State of Oregon, the Owner, the Contractor and its Subcontractors as their interests may appear.

G.3.3.3 Such insurance shall be maintained until Owner has occupied the facility.

G.3.3.4 A loss insured under the Builder's Risk insurance shall be adjusted by the Owner and made payable to the Owner for the insureds, as their interests may appear. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner. The Owner shall have power to adjust and settle a loss with insurers.

G.3.4 Liability Insurance:

G.3.4.1 Commercial General Liability: Contractor shall obtain, at Contractor's expense, and keep in effect during the term of this Contract, Commercial General Liability Insurance covering bodily injury and property damage in a form and with coverages that are satisfactory to owner. This insurance shall include personal injury liability, products and completed operations, and contractual liability coverage for the indemnity provided under this Contract (to the extent contractual liability coverage for the indemnity is available in the marketplace), and shall be issued on an occurrence basis. Contractor shall provide proof of insurance of not less than the amounts listed in the following schedules:

Per Occurrence Limit for any single claimant:
From commencement of the Contract term to June 30, 2011: $1,600,000
July 1, 2011 to June 30, 2012: $1,700,000
July 1, 2012 to June 30, 2013: $1,800,000
July 1, 2013 to June 30, 2014: $1,900,000
July 1, 2014 to June 30, 2015: $2,000,000
July 1, 2015 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Per Occurrence Limit for multiple claimants:
From commencement of the Contract term to June 30, 2011: $3,200,000
July 1, 2011 to June 30, 2012: $3,400,000
July 1, 2012 to June 30, 2013: $3,600,000
July 1, 2013 to June 30, 2014: $3,800,000
July 1, 2014 to June 30, 2015: $4,000,000
July 1, 2015 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Property Damage:

Per Occurrence Limit for any single claimant: From commencement of the Contract term to January 1, 2011: $100,100.
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

Per Occurrence Limit for multiple claimants:
From commencement of the Contract term to January 1, 2011 : $500,600.
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

G.3.4.2 Automobile Liability: Contractor shall obtain, at Contractor's expense, and keep in effect during the term of this Contract, Automobile Liability Insurance covering owned, non-owned and/or hired vehicles, as applicable. The coverage may be written in combination with the Commercial General Liability Insurance. Contractor shall provide proof of insurance of not less than the amounts listed in the following schedules:

Bodily Injury/Death:

Per Occurrence Limit for any single claimant:
From commencement of the Contract term June 30, 2011: $1,600,000
July 1, 2011 to June 30, 2012: $1,700,000
July 1, 2012 to June 30, 2013: $1,800,000
July 1, 2013 to June 30, 2014: $1,900,000
July 1, 2014 to June 30, 2015: $2,000,000
July 1, 2015 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Per Occurance Limit for multiple claimants:
From commencement of the Contract term to June 30, 2011: $3,200,000
July 1, 2011 to June 30, 2012: $3,400,000
July 1, 2012 to June 30, 2013: $3,600,000
July 1, 2013 to June 30, 2014: $3,800,000
July 1, 2014 to June 30, 2015: $4,000,000
July 1, 2015 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Property Damage:

Per Occurrence Limit for any single claimant: From commencement of the Contract term to January 1, 2011: $100,100
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

Per Occurrence Limit for multiple claimants:
From commencement of the Contract term to January 1, 2011: $500,600
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

G.3.4.3 "Tail" Coverage: If any of the required liability insurance is arranged on a "claims made" basis, "tail" coverage will be required at the completion of this Contract for a duration of 24 months or the maximum time period available in the marketplace if less than
24 months. Contractor will be responsible for furnishing certification of "tail" coverage as described or continuous "claims made" liability coverage for 24 months following Final Completion. Continuous "claims made" coverage will be acceptable in lieu of "tail" coverage, provided its retroactive date is on or before the effective date of this Contract. This will be a condition of the final acceptance of Work or services and related warranty (if any).

G.3.5 Excess/Umbrella Insurance: Contractor shall obtain, at contractors expense, excess/umbrella liability coverage in the amount of $5,000,000 per occurrence and $5,000,000 aggregate. Coverage shall be carried for the duration of the 10 year statute of repose in the State of Oregon.

G.3.6 Additional Insured: The liability insurance coverage, except Professional Liability if included, required for performance of this Contract shall include Owner, its departments, divisions, officers, and employees, as Additional Insureds but only with respect to the Contractor's activities to be performed under this Contract.

If Contractor cannot obtain an insurer to name the State of Oregon, its departments, divisions, officers and employees as Additional Insureds, Contractor shall obtain at Contractor's expense, and keep in effect during the term of this Contract, Owners and Contractors Protective Liability Insurance, naming the State of Oregon, its departments, divisions, officers and employees as Named Insureds with not less than a $1,500,000.00 limit per occurrence. This policy must be kept in effect for 12 months following Final Completion. As evidence of coverage, Contractor shall furnish the actual policy to Owner prior to execution of the Contract.

G.3.7 Certificate(s) of Insurance: As evidence of the insurance coverage required by this Contract, the Contractor shall furnish certificate(s) of insurance to the Owner prior to execution of the Contract. The certificate(s) will specify all of the parties who are Additional Insureds or Loss Payees. Insurance coverage required under this Contract shall be obtained from insurance companies or entities acceptable to the Owner that are allowed to provide such insurance under Oregon law. Eligible insurers include admitted insurers that have been issued a certificate of authority from the Oregon Department of Consumer and Business Services authorizing them to do an insurance business in the state of Oregon, and certain non-admitted surplus lines insurers that satisfy the requirements of applicable Oregon law and are approved by the Owner. The Contractor shall be financially responsible for all deductibles, self-insured retentions and/or self- insurance included hereunder. Any deductible, self- insured retention and/or self-insurance in excess of
$50,000 shall be approved by the Owner in writing prior execution of the Contract and is subject to Owner's approval. The Contractor shall immediately notify the Owner's Authorized Representative in writing of any change in insurance coverage.

G3.8 Waiver of Subrogation. All of Contractor's and subcontractors' liability insurance policies, with the exception of workers' compensation, shall contain a waiver of subrogation against Owner.
G.3.8 Additional Requirements for General Liability Policy. The policy shall be endorsed to be primary and non-contributory with any insurance maintained by Owner, its directors, officers, employees and agents. Products and Completed Operations Insurance shall be carried for the duration applicable for the10 year statute of repose in the State of Oregon. There can be no exclusions for subsidence, collapse, explosion, underground property damage, mold, fungus, water intrusion or water damage. There can be no cross-suite exclusion, Montrose language or exclusion limiting coverage to damages which first begin to occur within the policy period. The limits of coverage shall not be eroded or wasted by defense costs.

SECTION H
SCHEDULE OF WORK

H.1 CONTRACT PERIOD

H.1.1 **Time is of the essence on this Contract**. The Contractor shall at all times carry on the Work diligently, without delay and punctually fulfill all requirements herein. Contractor shall commence Work on the site within fifteen (15) Days of Notice to Proceed, unless directed otherwise.

H.1.2 Unless specifically extended by Change Order, all Work shall be complete by the date contained in the Contract Documents. The Owner shall have the right to accelerate the completion date of the Work, which may require the use of overtime. Such accelerated Work schedule shall be an acceleration in performance of Work under Section D.1.2 (f) and shall be subject to the Change Order process of Section D.1.

H.1.3 The Owner shall not waive any rights under the Contract by permitting the Contractor to continue or complete in whole or in part the Work after the date described in Section H.1.2 above.

H.2 SCHEDULE

H.2.1 Contractor shall provide, by or before the pre- construction conference, a detailed schedule for review and acceptance by the Owner. The submitted schedule must illustrate Work by significant project components, significant labor trades, long lead items, broken down by building and/or floor where applicable. Each schedule item shall account for no greater than 5 % of the monetary value of the project or 5 % of the available Contract Time. Schedules with activities of less than one day or valued at less than 1% of the Contract will be considered too detailed and will not be accepted. Schedules lacking adequate detail, or unreasonably detailed, will be rejected. Included within the schedule are the following: Notice to Proceed, Substantial Completion, and Final Completion. Schedules will be updated monthly and submitted with the monthly payment application. Acceptance of the Schedule by the Owner does not constitute agreement by the Owner, as to the Contractor's sequencing,

means, methods, or allocated Contract Time. Any positive difference between the Contractor's scheduled completion and the Contract completion date is float owned by the Owner. Owner reserves the right to negotiate the float if it is deemed to be in Owner's best interest to do so. In no case shall the Contractor make a request for additional compensation for delays if the Work is completed within the Contract Time but after Contractor's scheduled completion.

H.3 PARTIAL OCCUPANCY OR USE

H.3.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage, provided such occupancy or use is consented to by public authorities having jurisdiction over the Work. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have reasonably accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, insurance or self-insurance, maintenance, heat, utilities, and damage to the Work, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents with respect to such portion of the Work. Approval by the Contractor to partial occupancy or use shall not be unreasonably withheld. Immediately prior to such partial occupancy or use, the Owner and Contractor shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work. Partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

SECTION I
CORRECTION OF WORK

I.1 CORRECTION OF WORK BEFORE FINAL PAYMENT

I.1.1 The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects, and that the Work will conform to the requirements of the Contract Documents. Work failing to conform to these requirements shall be deemed defective. Contractor shall promptly remove from the premises and replace all defective materials and equipment as determined by the Owner's Authorized Representative, whether incorporated in the Work or not. Removal and replacement shall be without loss or expense to the Owner, and Contractor shall bear the cost of repairing all Work destroyed or damaged by such removal or replacement. Contractor shall be allowed a period of no longer than thirty (30)Days after Substantial Completion for completion of defective (punch list) work, unless otherwise agreed. At the end of that period, or earlier if requested by the Contractor, Owner shall arrange for inspection of the Work by the Architect/Engineer. Should the Work not be complete, and all corrections made, the costs for all subsequent re-inspections shall be borne by the Contractor. If Contractor fails to complete the punch list work within the above time period, Owner may perform such work and Contractor shall reimburse Owner all costs of the same within ten (10) days after demand without affecting Contractor's obligations.

I.2 WARRANTY WORK

I.2.1 Neither the final certificate of payment nor any provision of the Contract Documents shall relieve the Contractor from responsibility for defective Work and, unless a longer period is specified, Contractor shall correct all defects that appear in the Work within a period of one year from the date of issuance of the written notice of Substantial Completion by the Owner except for latent defects which will be remedied by the Contractor at any time they become apparent.

The Owner shall give Contractor notice of defects with reasonable promptness. Contractor shall perform such warranty work within a reasonable time after Owner's demand. If Contractor fails to complete the warranty work within such period as Owner determines reasonable, or at any time in the event of warranty work consisting of emergency repairs, Owner may perform such work and Contractor shall reimburse Owner all costs of the same within ten (10) Days after demand without affecting Contractors obligations.

I.2.2 This provision does not negate guarantees or warranties for periods longer than one year including without limitation such guarantees or warranties required by other sections of the Contract Documents for specific installations, materials, processes, equipment or fixtures.

I.2.3 In addition to Contractor's warranty, manufacturer's warranties shall pass to the Owner and shall not take effect until affected Work has been accepted in writing by the Owner's Authorized Representative.

I.2.4 The one-year period for correction of Work shall be extended with respect to portions of Work performed after Substantial Completion by the period of time between Substantial Completion and the actual performance of the Work, and shall be extended by corrective Work performed by the Contractor pursuant to this Section, as to the Work corrected. The Contractor shall remove from the site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

I.2.5 Nothing contained in this Section I.2 shall be construed to establish a period of limitation with respect to other obligations which the Contractor might have under the Contract Documents. Establishment of the period for correction of Work as described in this Section I.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

I.2.6 If the Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Price will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

SECTION J
SUSPENSION AND/OR TERMINATION OF THE WORK

J.1 OWNER'S RIGHT TO SUSPEND THE WORK

J.1.1 The Owner and/or the Owner's Authorized Representative has the authority to suspend portions or all of the Work due to the following causes:

(a) Failure of the Contractor to correct unsafe conditions;
(b) Failure of the Contractor to carry out any provision of the Contract;
(c) Failure of the Contractor to carry out orders;
(d) Conditions, in the opinion of the Owner's Authorized Representative, which are unsuitable for performing the Work;
(e) Time required to investigate differing site conditions;
(f) Any reason considered to be in the public interest.

J.1.2 The Owner shall notify Contractor and the Contractor's Surety in writing of the effective date and time of the suspension and Owner shall notify Contractor and Contractor's surety in writing to resume Work.

J.2 CONTRACTOR'SRESPONSIBILITIES

J.2.1 During the period of the suspension, Contractor is responsible to continue maintenance at the project just as if the Work were in progress. This includes, but is not limited to, protection of completed Work, maintenance of access, protection of stored materials, temporary facilities, and clean-up.

J.2.2 When the Work is recommenced after the suspension, the Contractor shall replace or renew any Work damaged during the suspension, remove any materials or facilities used as part of temporary maintenance, and complete the project in every respect as though its prosecution had been continuous and without suspension.

J.3 COMPENSATION FOR SUSPENSION

J.3.1 Depending on the reason for suspension of the Work, the Contractor or the Owner may be due compensation by the other party. If the suspension was required due to acts or omissions of Contractor, the Owner may assess the Contractor actual costs of the suspension in terms of administration, remedial work by the Owner's forces or another contractor to correct the problem associated with the suspension, rent of temporary facilities, and other actual costs related to the suspension. If the suspension was caused by acts or omissions of the Owner, the Contractor shall be due compensation which shall be defined using Section D, Changes in Work. If the suspension was required through no fault of the Contractor or the Owner, neither party owes the other for the impact.

J.4 OWNER'S RIGHT TO TERMINATE CONTRACT

J.4.1 The Owner may, without prejudice to any other right or remedy, and after giving Contractor seven (7) Days' written notice and an opportunity to cure, terminate the Contract in whole or in part under the following conditions:

(a) If Contractor should voluntarily or involuntarily, seek protection under the United States Bankruptcy Code and Contractor as debtor-in- possession or the Trustee for the estate fails to

assume the Contract within a reasonable time;

(b) If Contractor should make a general assignment for the benefit of Contractor's creditors;

(c) If a receiver should be appointed on account of Contractor's insolvency;

(d) If Contractor should repeatedly refuse or fail to supply an adequate number of skilled workers or proper materials to carry on the Work as required by the Contract Documents, or otherwise fail to perform the Work in a timely manner;

(e) If Contractor should repeatedly fail to make prompt payment to Subcontractors or for material or labor, or should disregard laws, ordinances or the instructions of the Owner or its Authorized Representative; or

(f) If Contractor is otherwise in material breach of any part of the Contract.

J.4.2 At any time that any of the above occurs, Owner may exercise all rights and remedies available to Owner at law or in equity, and in addition, Owner may take possession of the premises and of all materials and appliances and finish the Work by whatever method it may deem expedient. In such case, the Contractor shall not be entitled to receive further payment until the Work is completed. If the Owner's cost of finishing the Work exceeds the unpaid balance of the Contract Price, Contractor shall pay the difference to the Owner.

J.5 TERMINATION FOR CONVENIENCE

J.5.1 Owner may terminate the Contract in whole or in part whenever Owner determines that termination of the Contract is in the best interest of the public.

J.5.2 The Owner will provide the Contractor with seven
(7) Days' prior written notice of a termination for public convenience. After such notice, the Contractor shall provide the Owner with immediate and peaceful possession of the premises and materials located on and off the premises for which the

Contractor received progress payment under Section E. Compensation for Work terminated by the Owner under this provision will be according to Section E. In no circumstance shall Contractor be entitled to lost profits for Work not performed due to termination.

J.6 ACTION UPON TERMINATION

J.6.1 Upon receiving a notice of termination, and except as directed otherwise by the Owner, Contractor shall immediately cease placing further subcontracts or orders for materials, services, or facilities. In addition, Contractor shall terminate all subcontracts or orders to the extent they relate to the Work terminated and, with the prior written approval of the Owner, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts and orders.

J.6.2 As directed by the Owner, Contractor shall upon termination transfer title and deliver to the Owner all Record Documents, information, and other property that, if the Contract had been completed, would have been required to be furnished to the Owner.

SECTION K
CONTRACT CLOSE OUT

K.1 RECORD DOCUMENTS

As a condition of final payment (refer also to section E.6), Contractor shall comply with the following: Contractor shall provide to Owner's Authorized Representative, Record Documents of the entire project. Record Documents shall depict the project as constructed and shall reflect each and every change, modification, and deletion made during the construction. Record Documents are part of the Work and shall be provided prior to the Owner's issuance of final payment. Record Documents include all modifications to the Contract Documents unless otherwise directed. Media shall be electronic in addition to a cloud based storage for owner future use and access such as smartsheet.

K.2 OPERATION AND MAINTENANCE MANUALS

As part of the Work, Contractor shall submit two completed operation and maintenance manuals ("O & M Manuals") for review by the Owner's Authorized Representative prior to submission of any pay request for more than 75% of the Work. No payments beyond 75% will be made by the Owner until the 0 & M Manuals have been received. All O&M and closeout duties shall be via cloud based media such assmartsheet.com orotherwebbased media acceptable to owner in electronicformatting in addition to hard copies. The O & M Manuals shall contain a complete set of all submittals, all product data as required by the specifications, training information, phone list of consultants, manufacturers, installer and suppliers, manufacturer's printed data, record and shop drawings, schematic diagrams of systems, appropriate equipment indices, warranties and bonds. The Owner's Authorized Representative shall review and return one O & M Manual for any modifications or additions required. Prior to submission of its final pay request, Contractor shall deliver three (3) complete and approved sets of O & M Manuals to the Owner's Authorized Representative.

K.3 AFFIDAVIT/RELEASE OF LIENS AND CLAIMS

As a condition of final payment, the Contractor shall submit to the Owner's Authorized Representative a notarized affidavit/release of liens and claims form, in a form satisfactory to Owner, which states that all Subcontractors and suppliers have been paid in full, all disputes with property owners have been resolved, all obligations on the project have been satisfied, all monetary claims and indebtedness have been paid, and that, to the best of the Contractor's knowledge, there are no claims of any kind outstanding against the project. The Contractor shall indemnify, defend (with counsel of Owner's choice) and hold harmless the Owner from all claims for labor and materials finished under this Contract. The Contractor shall furnish complete and valid releases or waivers, satisfactory to the Owner, of all liens arising out of or filed in connection with the Work.

K.4 COMPLETION NOTICES

K.4.1 Contractor shall provide Owner notice of both Substantial and Final Completion. The certificate of Substantial Completion shall state the date of Substantial Completion, the responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and the time within which the Contractor shall finish all items on the punchlist accompanying the Certificate. Both completion notices must be signed by the Contractor and the Owner to be valid. The Owner shall provide the final signature on the notices. The notices shall take effect on the date they are signed by the Owner.

K.4.2 Substantial Completion of a facility with operating systems (e.g., mechanical, electrical, HVAC) shall be that degree of completion that has provided a minimum of thirty (30) continuous Days of successful, trouble-free operation, which period shall begin after all performance and acceptance testing has been successfully demonstrated to the Owner's Authorized Representative. All equipment contained in the Work, plus all other components necessary to enable the Owner to operate the facility in the manner that was intended, shall be complete on the Substantial Completion date. The Contractor may request that a punch list be prepared by the Owner's Authorized Representative with submission of the request for the Substantial Completion notice.

K.5 TRAINING

As part of the Work, and prior to submission of the request for final payment, the Contractor shall schedule with the Owner's Authorized Representative, training sessions for all equipment and systems, as required in the individual specifications sections. Contractor shall schedule training sessions at least two weeks in advance of the date of training to allow Owner personnel adequate notice. Training by video shall be conducted by contractor at owner's request as part of contract duties.

The O & M Manual shall be used as a basis for training. Training shall be a formal session, held after the equipment and/or system is completely installed and operational in its normal operating environment. All training shall be videotaped and recorded and provided by cloud based accessible electronic means acceptable to the owner.

K.6 EXTRAMATERIALS

As part of the Work, Contractor shall provide spare parts, extra maintenance materials, and other materials or products in the quantities specified in the specifications, prior to final payment. Delivery point for extra materials shall be designated by the Owner's Authorized Representative.

K.7 ENVIRONMENTAL CLEAN-UP

As part of the Final Completion notice, or as a separate written notice submitted with or before the notice of Final Completion, the Contractor shall notify the Owner that all environmental pollution clean-up performed as a part of this Contract has been disposed of in accordance with all applicable rules, regulations, laws, and statutes of all agencies having jurisdiction over such environmental pollution. The notice shall reaffirm the indemnification given under Section F.5.1 above.

K.8 CERTIFICATE OF OCCUPANCY

The Contractor shall not be granted Final Completion or receive final payment if the Owner has not received an unconditioned certificate of occupancy from the appropriate state and/or local building officials, unless failure to obtain an unconditional certificate of occupancy is due to the fault or neglect of Owner.

K.9 OTHER CONTRACTOR RESPONSIBILITIES

The Contractor shall be responsible for returning to the Owner all items issued during construction such as keys, security passes, site admittance badges, and all other pertinent items. The Contractor shall be responsible for notifying the appropriate utility companies to transfer utility charges from the Contractor to the Owner. The utility transfer date shall not be before Substantial Completion and may not be until Final Completion, if the Owner does not take beneficial use of the facility and the Contractor's forces continue with the Work.

K.10 SURVIVAL

All warranty and indemnification provisions of this Contract, and all of Contractor's other obligations under this Contract that are not fully performed by the time of Final Completion or termination, shall survive Final Completion or any termination of the Contract

SECTION L

LEGAL RELATIONS & RESPONSIBILITIES

L.1 LAWS TO BE OBSERVED

In compliance with ORS 279C.525, Sections L.2 through L.4 contain lists of federal, state and local agencies of which the Owner has knowledge that have enacted ordinances or regulations relating to environmental pollution and the preservation of natural resources that may affect the performance of the Contract:

L.2 FEDERAL AGENCIES

Agriculture, Department of Forest Service

Soil Conservation Service Coast Guard

Defense, Department of Army Corps of Engineers Energy, Department of

Federal Energy Regulatory Commission Environmental Protection Agency

Health and Human Services, Department of Housing and Urban Development, Department of Solar Energy and Energy

Conservation Bank Interior, Department of

Bureau of Land Management Bureau of Indian Affairs Bureau of Mines

Bureau of Reclamation Geological Survey Minerals Management Service

U.S. Fish and Wildlife Service

Labor, Department of

Mine Safety and Health Administration

Occupation Safety and Health Administration

Transportation, Department of

Federal Highway

Administration Water

Resources Council

L.3 STATE AGENCIES

Administrative Services, Department of

Agriculture, Department of Soil and Water

Conservation Commission

Columbia River Gorge Commission Energy,

Department of Environmental Quality,

Department of Fish and Wildlife, Department of

Forestry, Department of Geology and Mineral

Industries, Department of Human Resources,

Department of

Consumer and Business Services, Department of Land

Conservation and Development Commission Parks and

Recreation, Department of State Lands, Division of Water

Resources

L.4 LOCAL AGENCIES

City Councils County

Courts

County Commissioner, Board of Design

Commissions Historical Preservation

Commission Planning Commissions

Exhibit B

REYNOLDS SCHOOL DISTRICT
GMP AMENDMENT TO CONTRACT

THIS AMENDMENT IS BETWEEN:

OWNER:
Reynolds School District No. 7
1204 NE 201ST Avenue
Fairview, OR 97024-2499

And

TBD
CONSTRUCTION MANAGER/
GENERAL CONTRACTOR
(referred to in the Standard General Conditions For Public Improvement Contracts as Contractor and referred to herein as "the CM/GC"):

The Project is: Reynolds School District New Fairview Replacement Elementary

Date of Original CM/GC Contract:

Date of this Amendment:

The Owner and CM/GC hereby amend the Contract as set forth below. Capitalized terms used but not defined herein shall have the meanings given in the Contract Documents. Except as amended hereby, the Contract remains in full force and effect.

1. GMP. The parties agree that the GMP for the Project is $, consisting of the Preconstruction Fee, the Estimated Cost of the Work and the CM/GC Fee (stated as a fixed dollar lump sum amount), as follows:

Preconstruction Fee:	$
Estimated Cost of Work (Est. COW):	$
CM/GC Fee/Liab. Insurance/P&P Bond (% of Est. COW):	**$**
GMP (Total of above categories):	$

For purposes of determining the GMP, the Estimated Cost of the Work includes the CM/GC's Contingency, the Cost for GC Work, and the costs of all components and systems required for a complete, fully functional facility.

2. Basis of GMP. The GMP is based on the GMP Supporting Documents attached as Attachments A-F (pages) including the Allowances, assumptions, exclusions, unit prices, and alternates designated therein.

3. Plans and Specifications. The Plans and Specifications for the Project are as listed in the GMP Supporting Documents. CM/GC shall perform Construction Phase Services in accordance with the Plans and Specifications and the other Contract Documents.

4. Substantial Completion Date. Notwithstanding any provision in the GMP Supporting Documents to the contrary, the required date for Substantial Completion is: *[Select one of the following (insert new date if different Substantial Completion date has been agreed upon): the date stated in the Contract/ , 201_ .]*

5. Tax Compliance Certification. The individual signing on behalf of CM/GC hereby certifies and swears under penalty of perjury that s/he is authorized to act on behalf of CM/GC, s/he has authority and knowledge regarding CM/GC's payment of taxes, and to the best of her/his knowledge, CM/GC is not in violation of any Oregon tax laws. For purposes of this certification, "Oregon tax laws" are those tax laws listed in ORS 305.380(4), namely ORS Chapters 118, 314, 316, 317, 318, 320, 321 and 323 and Sections 10 to 20, Chapter 533, Oregon Laws 1981, as amended by Chapter 16, Oregon Laws 1982 (first special session); the elderly rental assistance program under ORS 310.630 to 310.706; and any local taxes administered by the Oregon Department of Revenue under ORS 305.620.

THIS AMENDMENT is executed in four original copies of which one is to be delivered to the CM/GC, and the remainder to Owner.

CM/GC:

Name of Firm:

Address:

CM/GC's Federal Tax I.D. #:

Construction Contractor's Board Registration No.:

_____
Signature of Authorized Representative of CM/GC
Title Date

OWNER:

REYNOLDS SCHOOL DISTRICT SCHOOL BOARD

_____
Signature of Reynolds School District School Board Representative
Title Date

REVIEWED AS TO SCOPE SUFFICIENCY

Reviewed
_____
Signature of Owners Representative
Date

Attachment A Plans, Specifications, Supplementary Conditions of the Contract, on which the Guaranteed Maximum Price is based, pages through dated .

Attachment B Allowance items, pages through dated .

Attachment C Assumptions and clarifications made in preparing the Guaranteed Maximum Price, pages through , dated .

Attachment D Completion schedule, pages through , dated .

Attachment E Alternate prices, pages through , dated .

Attachment F Unit prices, pages through , dated .

EXHIBIT C

COST FOR GENERAL CONDITIONS WORK

The table below states the categories of specific General Conditions Work costs that support the Cost for General Conditions Work that will be payable under the Contract. The total Cost for General Conditions Work shown below, based on the categories of General Conditions Work below, shall be the not to exceed amount that will be payable to CM/GC for General Conditions Work, regardless of the final Project cost or the actual construction period required to complete the Project. All items of General Conditions Work listed by Owner in the table below will be compensated either a not to exceed amount on a cost reimbursement basis. Any item of Work that might customarily be considered to be General Conditions Work by CM/GC but which Owner has not listed in the table below may be compensated on a cost reimbursement basis if it is described as Cost of the Work in Article 8.

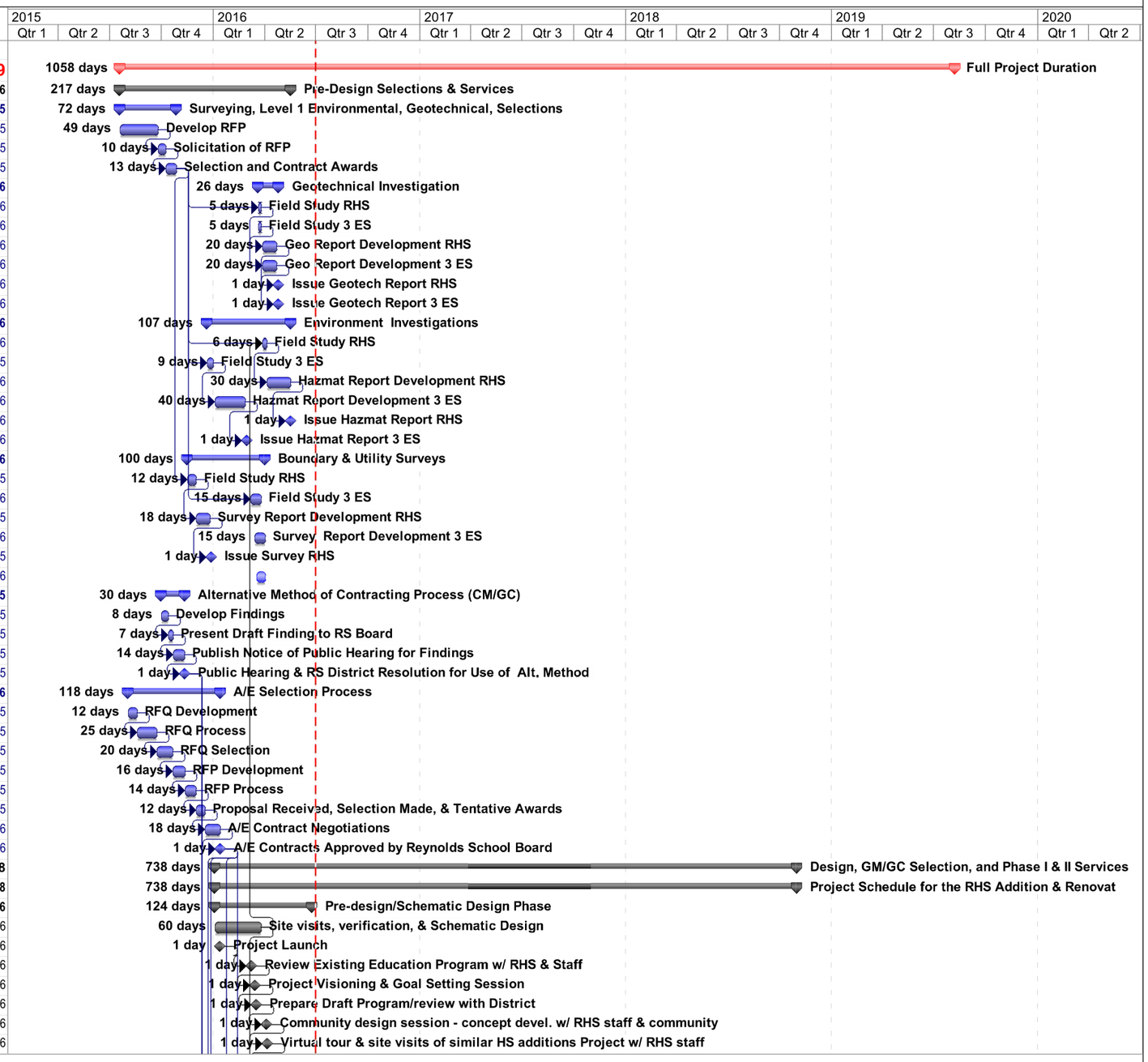
B.1 Project Manager	B.28 Office Security
B.2 Project Engineer	B.29 Sustainability Coordinator/Supervisor
B.3 Superintendent	B.30 Clerical/Secretarial
B.4 Field Supervision	B.31 Project Coordination
B.5 Field Coordination	B.32 Estimating and Cost Engineering
B.6 General Foreman	B.32 Overtime for CM/GC Onsite Supervisory Staff
B.7 Quality Control	B.34 Field Engineer
B.8 Safety Coordinator/Supervisor	B.35 Delivery Services
B.9 Trade Coordination	B.36 Project Foreman
B.10 Office Equipment	B.37 Fork Lift for Loading/Unloading of misc. materials
B.11 Printing/Reproduction	B.38 Loading & Unloading of miscellaneous materials
B.12 Phones/Phone lines, (Cell or Landline)	B.39Jobsite Clean-up (excludes Final Cleanup)
B.13 Fuel/Maintenance	B.40 Office Supplies
B.14 Substance Abuse Testing	B.41 Office Clean-up
B.15 Construction Signage	B.42 Temporary Toilets/Sinks
B.16 Progress Photo (Monthly)	B.43 First Aid Supplies
B.17 Temporary Office	B.44 IT Equipment
B.18 Postage/Delivery	B.45 Material Handling
B.19 Internet service	B.46 Staging Area Maintenance
B.20 Vehicles	B.47 Safety barrier/Safety warnings/Safety Handrails
B.21 Submittal Review & Approval	B.48 All cost for Sustainable Construction Practices,
B.22 Courier Delivery Services	B.49 Temp. water include distribution & utility charges
B.23 Drop Boxes & Disposal Fees	B.50 Drinking Water
B.24 Office Furniture	B.51 Small Tools
B.25 Drafting and Detailing	B.52 Maintenance & Monitoring of Erosion Control
B.26 Site Security	B.53 Travel / Mileage / Subsistence
B.27 All Background Checks, & fingerprinting	B.54 Site Webcam and services @ beginning to completion

DAY CPM services
COMPREHENSIVE PROJECT MANAGEMENT

Reynolds School District 2015 Bond Projects
Draft Master Schedule

Reynolds School District

ID	Task Name	Duration	Start	Finish
1				
2	**Full Project Duration**	**058 days**	**Mon 7/20/15**	**Wed 8/7/19**
3	**Pre-Design Selections & Services**	**217 days**	**Mon 7/20/15**	**Tue 5/17/16**
4	**Surveying, Level 1 Environmental, Geotechnical, Selections**	**72 days**	**Mon 7/20/15**	**Tue 10/27/15**
5	Develop RFP	49 days	Mon 7/20/15	Thu 9/24/15
6	Solicitation of RFP	10 days	Fri 9/25/15	Thu 10/8/15
7	Selection and Contract Awards	13 days	Fri 10/9/15	Tue 10/27/15
8	**Geotechnical Investigation**	**26 days**	**Mon 3/21/16**	**Mon 4/25/16**
9	Field Study RHS	5 days	Mon 3/21/16	Fri 3/25/16
10	Field Study 3 ES	5 days	Mon 3/21/16	Fri 3/25/16
11	Geo Report Development RHS	20 days	Mon 3/28/16	Fri 4/22/16
12	Geo Report Development 3 ES	20 days	Mon 3/28/16	Fri 4/22/16
13	Issue Geotech Report RHS	1 day	Mon 4/25/16	Mon 4/25/16
14	Issue Geotech Report 3 ES	1 day	Mon 4/25/16	Mon 4/25/16
15	**Environment Investigations**	**107 days**	**Mon 12/21/15**	**Tue 5/17/16**
16	Field Study RHS	6 days	Mon 3/28/16	Mon 4/4/16
17	Field Study 3 ES	9 days	Mon 12/21/15	Thu 12/31/15
18	Hazmat Report Development RHS	30 days	Tue 4/5/16	Mon 5/16/16
19	Hazmat Report Development 3 ES	40 days	Mon 1/4/16	Fri 2/26/16
20	Issue Hazmat Report RHS	1 day	Tue 5/17/16	Tue 5/17/16
21	Issue Hazmat Report 3 ES	1 day	Mon 2/29/16	Mon 2/29/16
22	**Boundary & Utility Surveys**	**100 days**	**Mon 11/16/15**	**Fri 4/1/16**
23	Field Study RHS	12 days	Mon 11/16/15	Tue 12/1/15
24	Field Study 3 ES	15 days	Mon 3/7/16	Fri 3/25/16
25	Survey Report Development RHS	18 days	Wed 12/2/15	Fri 12/25/15
26	Survey Report Development 3 ES	15 days	Mon 3/14/16	Fri 4/1/16
27	Issue Survey RHS	1 day	Mon 12/28/15	Mon 12/28/15
28	Issue Survey 3 ES	11 days	Fri 3/18/16	Fri 4/1/16
29	**Alternative Method of Contracting Process (CM/GC)**	**30 days**	**Thu 10/1/15**	**Wed 11/11/15**
30	Develop Findings	8 days	Thu 10/1/15	Mon 10/12/15
31	Present Draft Finding to RS Board	7 days	Tue 10/13/15	Wed 10/21/15
32	Publish Notice of Public Hearing for Findings	14 days	Thu 10/22/15	Tue 11/10/15
33	Public Hearing & RS District Resolution for Use of Alt. Method	1 day	Wed 11/11/15	Wed 11/11/15
34	**A/E Selection Process**	**118 days**	**Mon 8/3/15**	**Wed 1/13/16**
35	RFQ Development	12 days	Mon 8/3/15	Tue 8/18/15
36	RFQ Process	25 days	Wed 8/19/15	Tue 9/22/15
37	RFQ Selection	20 days	Wed 9/23/15	Tue 10/20/15
38	RFP Development	16 days	Wed 10/21/15	Wed 11/11/15
39	RFP Process	14 days	Thu 11/12/15	Tue 12/1/15
40	Proposal Received, Selection Made, & Tentative Awards	12 days	Wed 12/2/15	Thu 12/17/15
41	A/E Contract Negotiations	18 days	Fri 12/18/15	Tue 1/12/16
42	A/E Contracts Approved by Reynolds School Board	1 day	Wed 1/13/16	Wed 1/13/16
43	**Design, GM/GC Selection, and Phase I & II Services**	**738 days**	**Mon 1/4/16**	**Wed 10/31/18**
44	**Project Schedule for the RHS Addition & Renovation**	**738 days**	**Mon 1/4/16**	**Wed 10/31/18**
45	**Pre-design/Schematic Design Phase**	**124 days**	**Mon 1/4/16**	**Thu 6/23/16**
46	Site visits, verification, & Schematic Design	60 days	Mon 1/4/16	Fri 3/25/16
47	Project Launch	1 day	Tue 1/12/16	Tue 1/12/16
48	Review Existing Education Program w/ RHS & Staff	1 day	Tue 3/8/16	Tue 3/8/16
49	Project Visioning & Goal Setting Session	1 day	Tue 3/15/16	Tue 3/15/16
50	Prepare Draft Program/review with District	1 day	Thu 3/17/16	Thu 3/17/16
51	Community design session - concept devel. w/ RHS staff & community	1 day	Mon 4/4/16	Mon 4/4/16
52	Virtual tour & site visits of similar HS additions Project w/ RHS staff	1 day	Tue 4/5/16	Tue 4/5/16



Project: Preliminary Project Schedule 2
Date: June 30, 2016

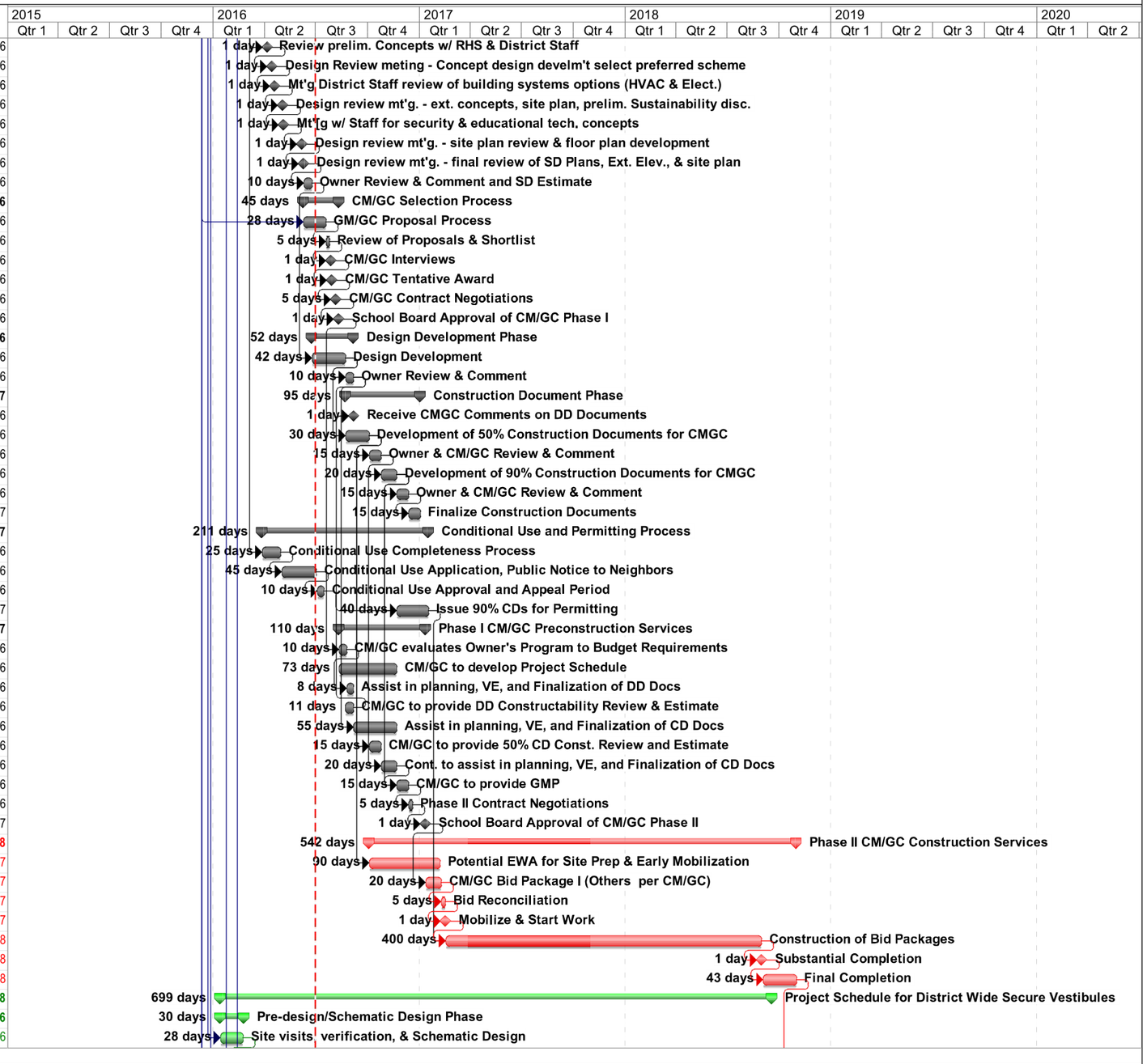
Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

DAY CPM services
COMPREHENSIVE PROJECT MANAGEMENT

Reynolds School District 2015 Bond Projects
Draft Master Schedule

Reynolds School District

ID	Task Name	Duration	Start	Finish
53	Review prelim. Concepts w/ RHS & District Staff	1 day	Wed 4/6/16	Wed 4/6/16
54	Design Review meting - Concept design develm't select preferred schem	1 day	Thu 4/14/16	Thu 4/14/16
55	Mt'g District Staff review of building systems options (HVAC & Elect.)	1 day	Tue 4/19/16	Tue 4/19/16
56	Design review mt'g. - ext. concepts, site plan, prelim. Sustainability disc.	1 day	Tue 5/3/16	Tue 5/3/16
57	Mt'[g w/ Staff for security & educational tech. concepts	1 day	Thu 5/5/16	Thu 5/5/16
58	Design review mt'g. - site plan review & floor plan development	1 day	Mon 6/6/16	Mon 6/6/16
59	Design review mt'g. - final review of SD Plans, Ext. Elev., & site plan	1 day	Thu 6/9/16	Thu 6/9/16
60	Owner Review & Comment and SD Estimate	10 days	Fri 6/10/16	Thu 6/23/16
61	**CM/GC Selection Process**	**45 days**	**Thu 6/9/16**	**Wed 8/10/16**
62	GM/GC Proposal Process	28 days	Thu 6/9/16	Mon 7/18/16
63	Review of Proposals & Shortlist	5 days	Tue 7/19/16	Mon 7/25/16
64	CM/GC Interviews	1 day	Thu 7/28/16	Thu 7/28/16
65	CM/GC Tentative Award	1 day	Fri 7/29/16	Fri 7/29/16
66	CM/GC Contract Negotiations	5 days	Mon 8/1/16	Fri 8/5/16
67	School Board Approval of CM/GC Phase I	1 day	Wed 8/10/16	Wed 8/10/16
68	**Design Development Phase**	**52 days**	**Fri 6/24/16**	**Mon 9/5/16**
69	Design Development	42 days	Fri 6/24/16	Mon 8/22/16
70	Owner Review & Comment	10 days	Tue 8/23/16	Mon 9/5/16
71	**Construction Document Phase**	**95 days**	**Tue 8/23/16**	**Mon 1/2/17**
72	Receive CMGC Comments on DD Documents	1 day	Tue 9/6/16	Tue 9/6/16
73	Development of 50% Construction Documents for CMGC	30 days	Tue 8/23/16	Mon 10/3/16
74	Owner & CM/GC Review & Comment	15 days	Tue 10/4/16	Mon 10/24/16
75	Development of 90% Construction Documents for CMGC	20 days	Tue 10/25/16	Mon 11/21/16
76	Owner & CM/GC Review & Comment	15 days	Tue 11/22/16	Mon 12/12/16
77	Finalize Construction Documents	15 days	Tue 12/13/16	Mon 1/2/17
78	**Conditional Use and Permitting Process**	**211 days**	**Mon 3/28/16**	**Mon 1/16/17**
79	Conditional Use Completeness Process	25 days	Mon 3/28/16	Fri 4/29/16
80	Conditional Use Application, Public Notice to Neighbors	45 days	Mon 5/2/16	Fri 7/1/16
81	Conditional Use Approval and Appeal Period	10 days	Mon 7/4/16	Fri 7/15/16
82	Issue 90% CDs for Permitting	40 days	Tue 11/22/16	Mon 1/16/17
83	**Phase I CM/GC Preconstruction Services**	**110 days**	**Thu 8/11/16**	**Wed 1/11/17**
84	CM/GC evaluates Owner's Program to Budget Requirements	10 days	Thu 8/11/16	Wed 8/24/16
85	CM/GC to develop Project Schedule	73 days	Thu 8/11/16	Mon 11/21/16
86	Assist in planning, VE, and Finalization of DD Docs	8 days	Thu 8/25/16	Mon 9/5/16
87	CM/GC to provide DD Constructability Review & Estimate	11 days	Mon 8/22/16	Mon 9/5/16
88	Assist in planning, VE, and Finalization of CD Docs	55 days	Tue 9/6/16	Mon 11/21/16
89	CM/GC to provide 50% CD Const. Review and Estimate	15 days	Tue 10/4/16	Mon 10/24/16
90	Cont. to assist in planning, VE, and Finalization of CD Docs	20 days	Tue 10/25/16	Mon 11/21/16
91	CM/GC to provide GMP	15 days	Tue 11/22/16	Mon 12/12/16
92	Phase II Contract Negotiations	5 days	Tue 12/13/16	Mon 12/19/16
93	School Board Approval of CM/GC Phase II	1 day	Wed 1/11/17	Wed 1/11/17
94	**Phase II CM/GC Construction Services**	**542 days**	**Tue 10/4/16**	**Wed 10/31/18**
95	Potential EWA for Site Prep & Early Mobilization	90 days	Tue 10/4/16	Mon 2/6/17
96	CM/GC Bid Package I (Others per CM/GC)	20 days	Thu 1/12/17	Wed 2/8/17
97	Bid Reconciliation	5 days	Thu 2/9/17	Wed 2/15/17
98	Mobilize & Start Work	1 day	Thu 2/16/17	Thu 2/16/17
99	Construction of Bid Packages	400 days	Fri 2/17/17	Thu 8/30/18
100	Substantial Completion	1 day	Fri 8/31/18	Fri 8/31/18
101	Final Completion	43 days	Mon 9/3/18	Wed 10/31/18
102	**Project Schedule for District Wide Secure Vestibules**	**699 days**	**Thu 1/14/16**	**Tue 9/18/18**
103	**Pre-design/Schematic Design Phase**	**30 days**	**Thu 1/14/16**	**Wed 2/24/16**
104	Site visits, verification, & Schematic Design	28 days	Thu 1/14/16	Mon 2/22/16



Project: Preliminary Project Schedule 2
Date: June 30, 2016

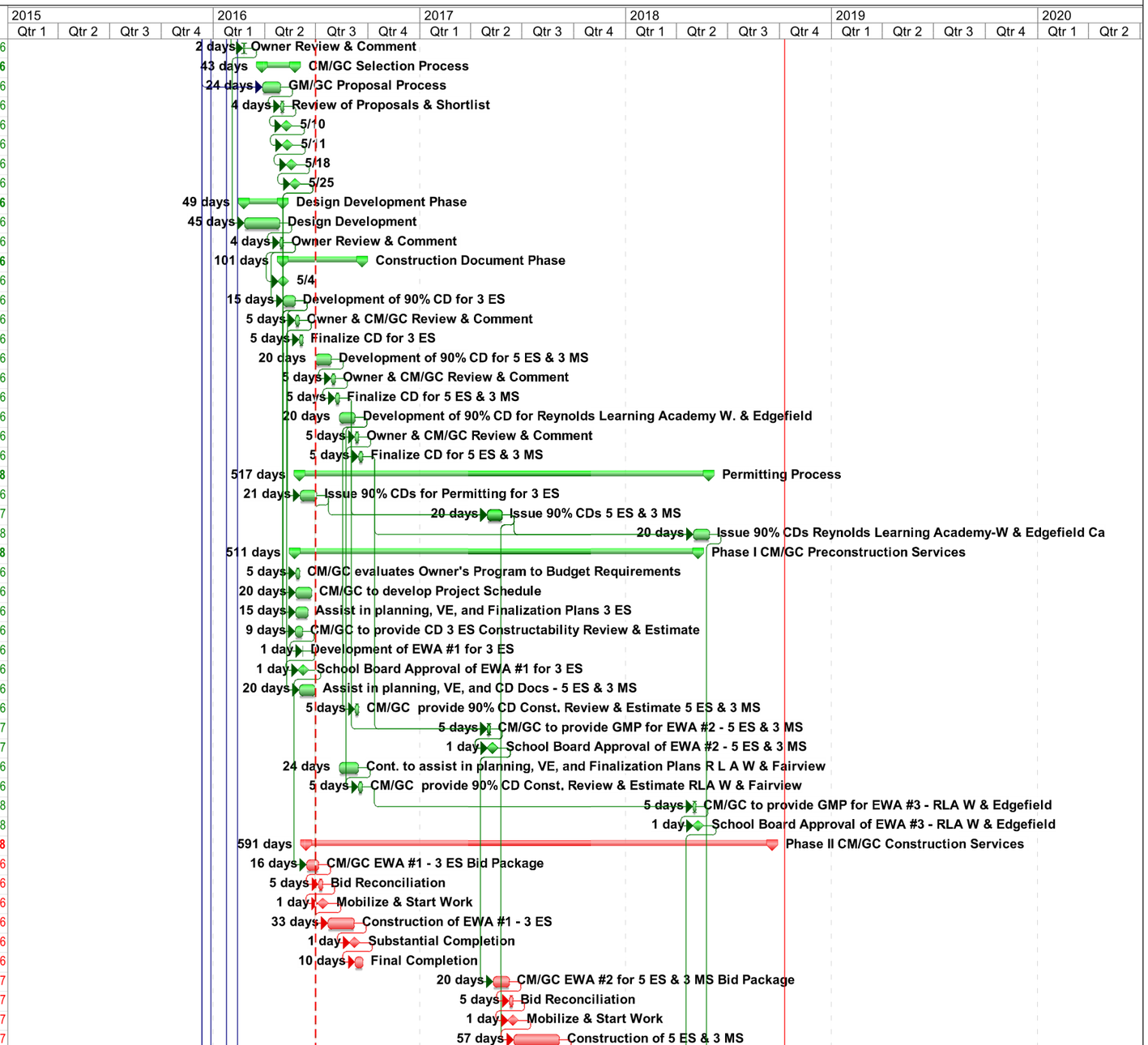
Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

DAY CPM services
COMPREHENSIVE PROJECT MANAGEMENT

Reynolds School District 2015 Bond Projects
Draft Master Schedule

Reynolds School District

ID	Task Name	Duration	Start	Finish
105	Owner Review & Comment	2 days	Tue 2/23/16	Wed 2/24/16
106	**CM/GC Selection Process**	**43 days**	**Mon 3/28/16**	**Wed 5/25/16**
107	GM/GC Proposal Process	24 days	Mon 3/28/16	Thu 4/28/16
108	Review of Proposals & Shortlist	4 days	Fri 4/29/16	Wed 5/4/16
109	CM/GC Interviews	1 day	Tue 5/10/16	Tue 5/10/16
110	CM/GC Tentative Award	1 day	Wed 5/11/16	Wed 5/11/16
111	CM/GC Contract Negotiations	5 days	Thu 5/12/16	Wed 5/18/16
112	School Board Approval of CM/GC Phase I	1 day	Wed 5/25/16	Wed 5/25/16
113	**Design Development Phase**	**49 days**	**Thu 2/25/16**	**Tue 5/3/16**
114	Design Development	45 days	Thu 2/25/16	Wed 4/27/16
115	Owner Review & Comment	4 days	Thu 4/28/16	Tue 5/3/16
116	**Construction Document Phase**	**101 days**	**Wed 5/4/16**	**Wed 9/21/16**
117	Receive District Comments on DD Documents	1 day	Wed 5/4/16	Wed 5/4/16
118	Development of 90% CD for 3 ES	15 days	Wed 5/4/16	Tue 5/24/16
119	Owner & CM/GC Review & Comment	5 days	Wed 5/25/16	Tue 5/31/16
120	Finalize CD for 3 ES	5 days	Wed 6/1/16	Tue 6/7/16
121	Development of 90% CD for 5 ES & 3 MS	20 days	Thu 6/30/16	Wed 7/27/16
122	Owner & CM/GC Review & Comment	5 days	Thu 7/28/16	Wed 8/3/16
123	Finalize CD for 5 ES & 3 MS	5 days	Thu 8/4/16	Wed 8/10/16
124	Development of 90% CD for Reynolds Learning Academy W. & Edgefield	20 days	Thu 8/11/16	Wed 9/7/16
125	Owner & CM/GC Review & Comment	5 days	Thu 9/8/16	Wed 9/14/16
126	Finalize CD for 5 ES & 3 MS	5 days	Thu 9/15/16	Wed 9/21/16
127	**Permitting Process**	**517 days**	**Fri 6/3/16**	**Mon 5/28/18**
128	Issue 90% CDs for Permitting for 3 ES	21 days	Fri 6/3/16	Fri 7/1/16
129	Issue 90% CDs 5 ES & 3 MS	20 days	Mon 5/1/17	Fri 5/26/17
130	Issue 90% CDs Reynolds Learning Academy-W & Edgefield Campus	20 days	Tue 5/1/18	Mon 5/28/18
131	**Phase I CM/GC Preconstruction Services**	**511 days**	**Wed 5/25/16**	**Wed 5/9/18**
132	CM/GC evaluates Owner's Program to Budget Requirements	5 days	Thu 5/26/16	Wed 6/1/16
133	CM/GC to develop Project Schedule	20 days	Thu 5/26/16	Wed 6/22/16
134	Assist in planning, VE, and Finalization Plans 3 ES	15 days	Thu 5/26/16	Wed 6/15/16
135	CM/GC to provide CD 3 ES Constructability Review & Estimate	9 days	Wed 5/25/16	Mon 6/6/16
136	Development of EWA #1 for 3 ES	1 day	Tue 6/7/16	Tue 6/7/16
137	School Board Approval of EWA #1 for 3 ES	1 day	Wed 6/8/16	Wed 6/8/16
138	Assist in planning, VE, and CD Docs - 5 ES & 3 MS	20 days	Wed 6/1/16	Tue 6/28/16
139	CM/GC provide 90% CD Const. Review & Estimate 5 ES & 3 MS	5 days	Thu 9/8/16	Wed 9/14/16
140	CM/GC to provide GMP for EWA #2 - 5 ES & 3 MS	5 days	Mon 5/1/17	Fri 5/5/17
141	School Board Approval of EWA #2 - 5 ES & 3 MS	1 day	Wed 5/10/17	Wed 5/10/17
142	Cont. to assist in planning, VE, and Finalization Plans R L A W & Fairview	24 days	Thu 8/11/16	Tue 9/13/16
143	CM/GC provide 90% CD Const. Review & Estimate RLA W & Fairview	5 days	Wed 9/14/16	Tue 9/20/16
144	CM/GC to provide GMP for EWA #3 - RLA W & Edgefield	5 days	Mon 4/30/18	Fri 5/4/18
145	School Board Approval of EWA #3 - RLA W & Edgefield	1 day	Wed 5/9/18	Wed 5/9/18
146	**Phase II CM/GC Construction Services**	**591 days**	**Tue 6/14/16**	**Tue 9/18/18**
147	CM/GC EWA #1 - 3 ES Bid Package	16 days	Tue 6/14/16	Tue 7/5/16
148	Bid Reconciliation	5 days	Wed 7/6/16	Tue 7/12/16
149	Mobilize & Start Work	1 day	Wed 7/13/16	Wed 7/13/16
150	Construction of EWA #1 - 3 ES	33 days	Fri 7/22/16	Tue 9/6/16
151	Substantial Completion	1 day	Wed 9/7/16	Wed 9/7/16
152	Final Completion	10 days	Thu 9/8/16	Wed 9/21/16
153	CM/GC EWA #2 for 5 ES & 3 MS Bid Package	20 days	Thu 5/11/17	Wed 6/7/17
154	Bid Reconciliation	5 days	Thu 6/8/17	Wed 6/14/17
155	Mobilize & Start Work	1 day	Thu 6/15/17	Thu 6/15/17
156	Construction of 5 ES & 3 MS	57 days	Fri 6/16/17	Mon 9/4/17



Project: Preliminary Project Schedule 2
Date: June 30, 2016

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

DAY CPM services
COMPREHENSIVE PROJECT MANAGEMENT

Reynolds School District 2015 Bond Projects
Draft Master Schedule

Reynolds School District

ID	Task Name	Duration	Start	Finish
157	Substantial Completion	1 day	Tue 9/5/17	Tue 9/5/17
158	Final Completion	10 days	Wed 9/6/17	Tue 9/19/17
159	CM/GC EWA #3 - RLA W & Edgefield Bid Package	20 days	Thu 5/10/18	Wed 6/6/18
160	Bid Reconciliation	5 days	Thu 6/7/18	Wed 6/13/18
161	Mobilize & Start Work	1 day	Thu 6/14/18	Thu 6/14/18
162	Construction of RLA W & Edgefield Bid Package	57 days	Fri 6/15/18	Mon 9/3/18
163	Substantial Completion	1 day	Tue 9/4/18	Tue 9/4/18
164	Final Completion	10 days	Wed 9/5/18	Tue 9/18/18
165	**Project Schedule for Wilkes ES Replacement**	**727 days**	**Tue 1/19/16**	**Wed 10/31/18**
166	**Pre-design/Schematic Design Phase**	**89 days**	**Tue 1/19/16**	**Fri 5/20/16**
167	Programming, verification, & Schematic Design	79 days	Tue 1/19/16	Fri 5/6/16
168	Programming meeting w/ District Staff 1:00 - 5:00 p.m.	1 day	Tue 1/19/16	Tue 1/19/16
169	Programming meeting w/ District Staff 8:00 a.m. - Noon	1 day	Wed 1/20/16	Wed 1/20/16
170	Programming meeting w/ District Staff AM or PM	1 day	Thu 1/21/16	Thu 1/21/16
171	Programming meeting w/ District Staff 1/2 Day Each	5 days	Mon 2/1/16	Fri 2/5/16
172	Owner Review & Comment	10 days	Mon 5/9/16	Fri 5/20/16
173	**CM/GC Selection Process**	**46 days**	**Wed 5/11/16**	**Wed 7/13/16**
174	GM/GC Proposal Process	23 days	Wed 5/11/16	Fri 6/10/16
175	Review of Proposals & Shortlist	5 days	Fri 6/10/16	Thu 6/16/16
176	CM/GC Interviews	1 day	Tue 6/21/16	Tue 6/21/16
177	CM/GC Tentative Award	1 day	Wed 6/22/16	Wed 6/22/16
178	CM/GC Contract Negotiations	5 days	Thu 6/23/16	Wed 6/29/16
179	School Board Approval of CM/GC Phase I	1 day	Wed 7/13/16	Wed 7/13/16
180	**Design Development Phase**	**55 days**	**Mon 5/23/16**	**Fri 8/5/16**
181	Design Development	45 days	Mon 5/23/16	Fri 7/22/16
182	Owner Review & Comment	10 days	Mon 7/25/16	Fri 8/5/16
183	**Construction Document Phase**	**96 days**	**Mon 8/8/16**	**Mon 12/19/16**
184	Receive CMGC Comments on DD Documents	1 day	Mon 8/8/16	Mon 8/8/16
185	Development of 50% Construction Documents for CMGC	30 days	Tue 8/9/16	Mon 9/19/16
186	Owner & CM/GC Review & Comment	15 days	Tue 9/20/16	Mon 10/10/16
187	Development of 90% Construction Documents for CMGC	20 days	Tue 10/11/16	Mon 11/7/16
188	Owner & CM/GC Review & Comment	15 days	Tue 11/8/16	Mon 11/28/16
189	Finalize Construction Documents	15 days	Tue 11/29/16	Mon 12/19/16
190	Issue 90% CDs for Permitting	1 day	Tue 11/8/16	Tue 11/8/16
191	**Conditional Use and Permitting Process**	**171 days**	**Mon 5/9/16**	**Mon 1/2/17**
192	Conditional Use Completeness Process	25 days	Mon 5/9/16	Fri 6/10/16
193	Conditional Use Application, Public Notice to Neighbors	100 days	Mon 6/13/16	Fri 10/28/16
194	Conditional Use Approval and Appeal Period	10 days	Mon 10/31/16	Fri 11/11/16
195	Building Permit	40 days	Tue 11/8/16	Mon 1/2/17
196	**Phase I CM/GC Preconstruction Services**	**110 days**	**Thu 7/14/16**	**Wed 12/14/16**
197	CM/GC evaluates Owner's Program to Budget Requirements	5 days	Thu 7/14/16	Wed 7/20/16
198	CM/GC to develop Project Schedule	83 days	Thu 7/14/16	Mon 11/7/16
199	Assist in planning, VE, and Finalization of DD Docs	17 days	Thu 7/14/16	Fri 8/5/16
200	CM/GC to provide DD Constructability Review & Estimate	10 days	Mon 7/25/16	Fri 8/5/16
201	Assist in planning, VE, and Finalization of CD Docs	66 days	Mon 8/8/16	Mon 11/7/16
202	CM/GC to provide 50% CD Const. Review and Estimate	14 days	Tue 9/20/16	Fri 10/7/16
203	Cont. to assist in planning, VE, and Finalization of CD Docs	15 days	Tue 11/8/16	Mon 11/28/16
204	CM/GC to provide GMP	15 days	Tue 11/8/16	Mon 11/28/16
205	Phase II Contract Negotiations	10 days	Tue 11/29/16	Mon 12/12/16
206	School Board Approval of CM/GC Phase II	1 day	Wed 12/14/16	Wed 12/14/16
207	**Phase II CM/GC Construction Services**	**552 days**	**Tue 9/20/16**	**Wed 10/31/18**
208	Potential EWA for Site Prep & Early Mobilization	90 days	Tue 9/20/16	Mon 1/23/17

Project: Preliminary Project Schedule 2
Date: June 30, 2016

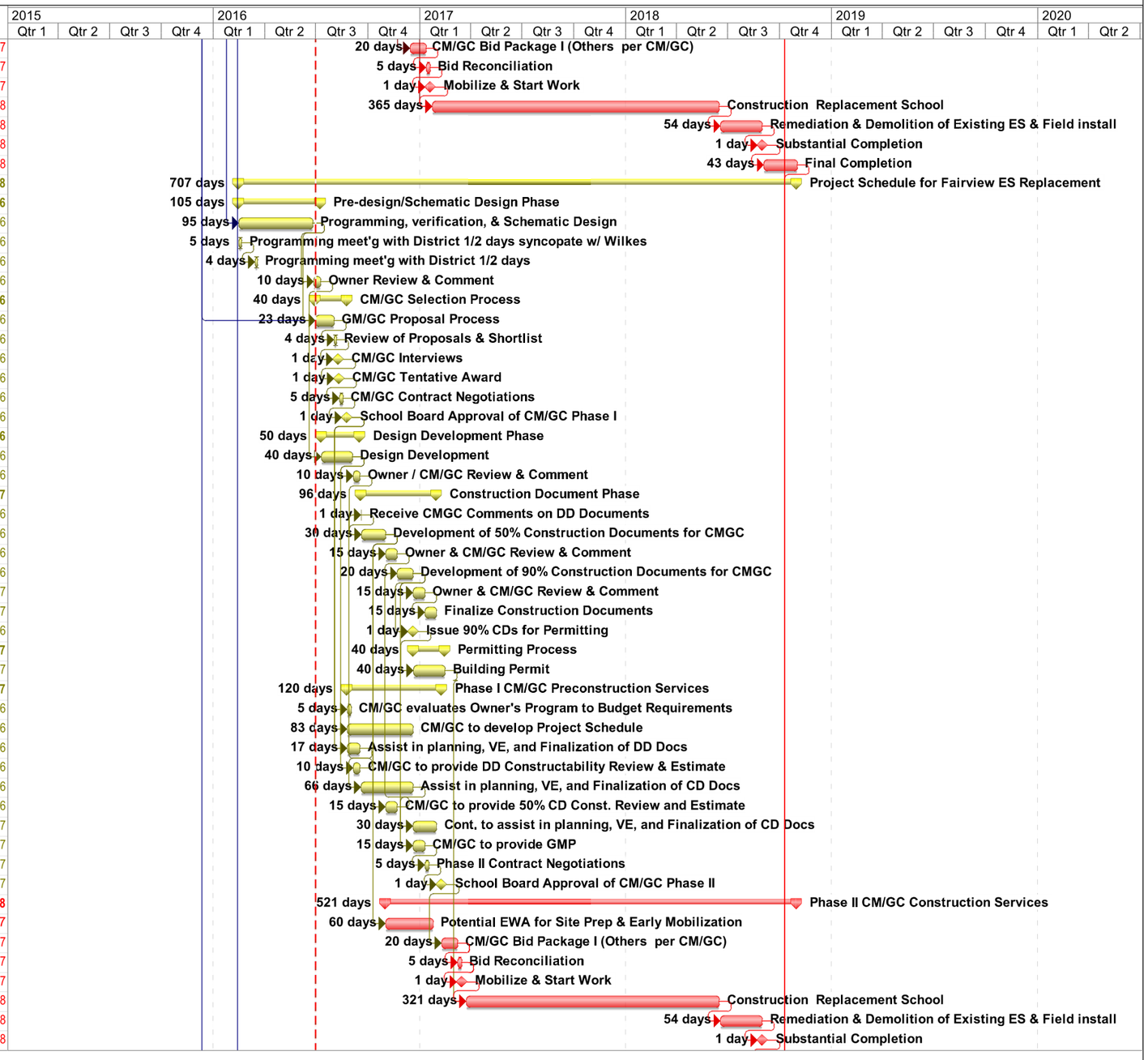
Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

DAY CPM services
COMPREHENSIVE PROJECT MANAGEMENT

Reynolds School District 2015 Bond Projects
Draft Master Schedule

Reynolds School District

ID	Task Name	Duration	Start	Finish
209	CM/GC Bid Package I (Others per CM/GC)	20 days	Thu 12/15/16	Wed 1/11/17
210	Bid Reconciliation	5 days	Thu 1/12/17	Wed 1/18/17
211	Mobilize & Start Work	1 day	Thu 1/19/17	Thu 1/19/17
212	Construction Replacement School	365 days	Mon 1/23/17	Fri 6/15/18
213	Remediation & Demolition of Existing ES & Field installation	54 days	Mon 6/18/18	Thu 8/30/18
214	Substantial Completion	1 day	Fri 8/31/18	Fri 8/31/18
215	Final Completion	43 days	Mon 9/3/18	Wed 10/31/18
216	**Project Schedule for Fairview ES Replacement**	**707 days**	**Mon 2/15/16**	**Tue 10/30/18**
217	**Pre-design/Schematic Design Phase**	**105 days**	**Mon 2/15/16**	**Fri 7/8/16**
218	Programming, verification, & Schematic Design	95 days	Mon 2/15/16	Fri 6/24/16
219	Programming meet'g with District 1/2 days syncopate w/ Wilkes	5 days	Mon 2/15/16	Fri 2/19/16
220	Programming meet'g with District 1/2 days	4 days	Tue 3/15/16	Fri 3/18/16
221	Owner Review & Comment	10 days	Mon 6/27/16	Fri 7/8/16
222	**CM/GC Selection Process**	**40 days**	**Thu 6/30/16**	**Wed 8/24/16**
223	GM/GC Proposal Process	23 days	Thu 6/30/16	Mon 8/1/16
224	Review of Proposals & Shortlist	4 days	Tue 8/2/16	Fri 8/5/16
225	CM/GC Interviews	1 day	Tue 8/9/16	Tue 8/9/16
226	CM/GC Tentative Award	1 day	Wed 8/10/16	Wed 8/10/16
227	CM/GC Contract Negotiations	5 days	Thu 8/11/16	Wed 8/17/16
228	School Board Approval of CM/GC Phase I	1 day	Wed 8/24/16	Wed 8/24/16
229	**Design Development Phase**	**50 days**	**Mon 7/11/16**	**Fri 9/16/16**
230	Design Development	40 days	Mon 7/11/16	Fri 9/2/16
231	Owner / CM/GC Review & Comment	10 days	Mon 9/5/16	Fri 9/16/16
232	**Construction Document Phase**	**96 days**	**Mon 9/19/16**	**Mon 1/30/17**
233	Receive CMGC Comments on DD Documents	1 day	Mon 9/19/16	Mon 9/19/16
234	Development of 50% Construction Documents for CMGC	30 days	Tue 9/20/16	Mon 10/31/16
235	Owner & CM/GC Review & Comment	15 days	Tue 11/1/16	Mon 11/21/16
236	Development of 90% Construction Documents for CMGC	20 days	Tue 11/22/16	Mon 12/19/16
237	Owner & CM/GC Review & Comment	15 days	Tue 12/20/16	Mon 1/9/17
238	Finalize Construction Documents	15 days	Tue 1/10/17	Mon 1/30/17
239	Issue 90% CDs for Permitting	1 day	Tue 12/20/16	Tue 12/20/16
240	**Permitting Process**	**40 days**	**Wed 12/21/16**	**Tue 2/14/17**
241	Building Permit	40 days	Wed 12/21/16	Tue 2/14/17
242	**Phase I CM/GC Preconstruction Services**	**120 days**	**Thu 8/25/16**	**Wed 2/8/17**
243	CM/GC evaluates Owner's Program to Budget Requirements	5 days	Thu 8/25/16	Wed 8/31/16
244	CM/GC to develop Project Schedule	83 days	Thu 8/25/16	Mon 12/19/16
245	Assist in planning, VE, and Finalization of DD Docs	17 days	Thu 8/25/16	Fri 9/16/16
246	CM/GC to provide DD Constructability Review & Estimate	10 days	Mon 9/5/16	Fri 9/16/16
247	Assist in planning, VE, and Finalization of CD Docs	66 days	Mon 9/19/16	Mon 12/19/16
248	CM/GC to provide 50% CD Const. Review and Estimate	15 days	Tue 11/1/16	Mon 11/21/16
249	Cont. to assist in planning, VE, and Finalization of CD Docs	30 days	Tue 12/20/16	Mon 1/30/17
250	CM/GC to provide GMP	15 days	Tue 12/20/16	Mon 1/9/17
251	Phase II Contract Negotiations	5 days	Tue 1/10/17	Mon 1/16/17
252	School Board Approval of CM/GC Phase II	1 day	Wed 2/8/17	Wed 2/8/17
253	**Phase II CM/GC Construction Services**	**521 days**	**Tue 11/1/16**	**Tue 10/30/18**
254	Potential EWA for Site Prep & Early Mobilization	60 days	Tue 11/1/16	Mon 1/23/17
255	CM/GC Bid Package I (Others per CM/GC)	20 days	Thu 2/9/17	Wed 3/8/17
256	Bid Reconciliation	5 days	Thu 3/9/17	Wed 3/15/17
257	Mobilize & Start Work	1 day	Thu 3/16/17	Thu 3/16/17
258	Construction Replacement School	321 days	Fri 3/24/17	Fri 6/15/18
259	Remediation & Demolition of Existing ES & Field installation	54 days	Mon 6/18/18	Thu 8/30/18
260	Substantial Completion	1 day	Fri 8/31/18	Fri 8/31/18



Project: Preliminary Project Schedule 2
Date: June 30, 2016

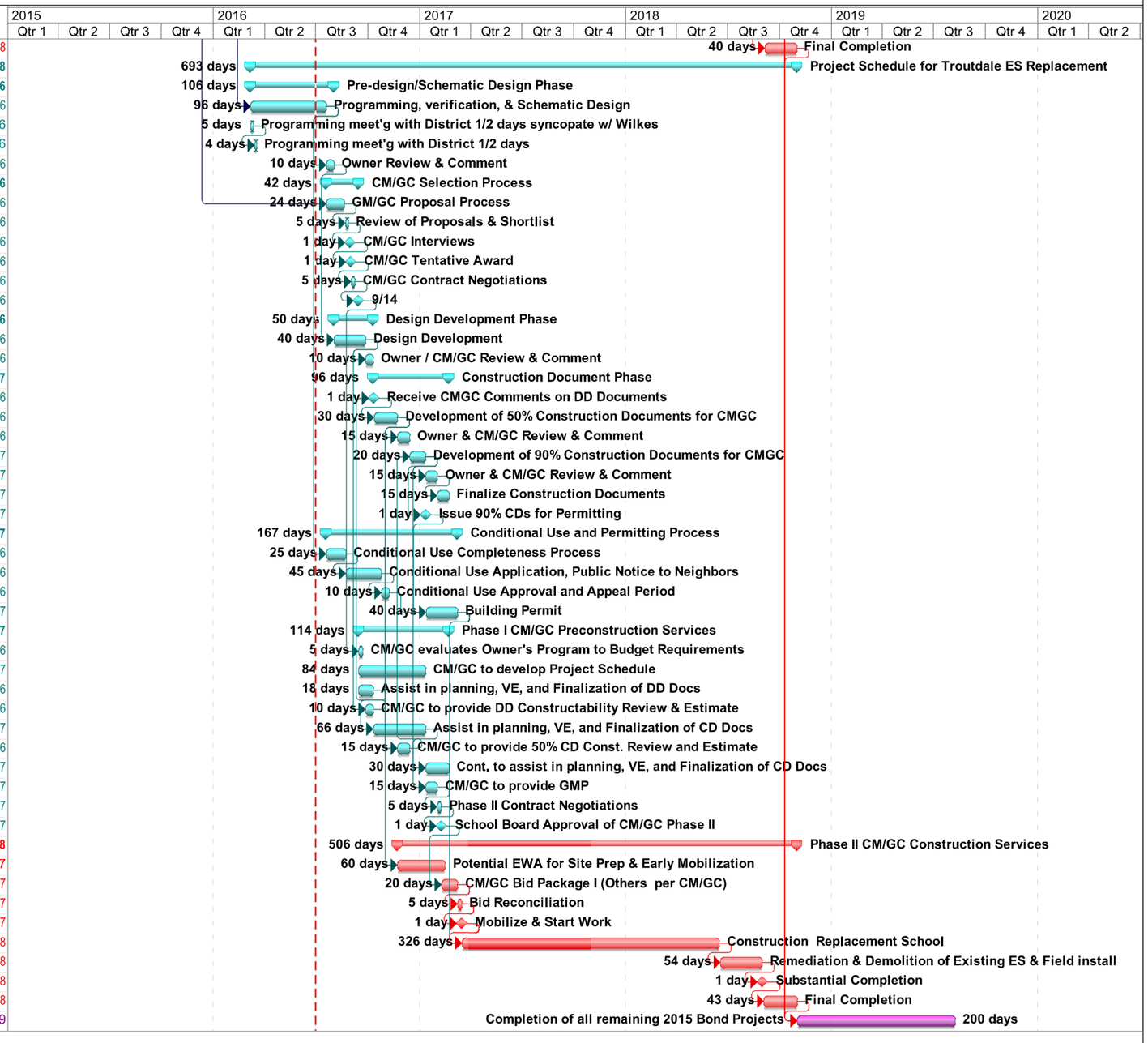
Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

DAY CPM services
COMPREHENSIVE PROJECT MANAGEMENT

Reynolds School District 2015 Bond Projects
Draft Master Schedule

Reynolds School District

ID	Task Name	Duration	Start	Finish
261	Final Completion	40 days	Wed 9/5/18	Tue 10/30/18
262	**Project Schedule for Troutdale ES Replacement**	**693 days**	**Mon 3/7/16**	**Wed 10/31/18**
263	**Pre-design/Schematic Design Phase**	**106 days**	**Mon 3/7/16**	**Mon 8/1/16**
264	Programming, verification, & Schematic Design	96 days	Mon 3/7/16	Mon 7/18/16
265	Programming meet'g with District 1/2 days syncopate w/ Wilkes	5 days	Mon 3/7/16	Fri 3/11/16
266	Programming meet'g with District 1/2 days	4 days	Mon 3/14/16	Thu 3/17/16
267	Owner Review & Comment	10 days	Tue 7/19/16	Mon 8/1/16
268	**CM/GC Selection Process**	**42 days**	**Tue 7/19/16**	**Wed 9/14/16**
269	GM/GC Proposal Process	24 days	Tue 7/19/16	Fri 8/19/16
270	Review of Proposals & Shortlist	5 days	Mon 8/22/16	Fri 8/26/16
271	CM/GC Interviews	1 day	Tue 8/30/16	Tue 8/30/16
272	CM/GC Tentative Award	1 day	Wed 8/31/16	Wed 8/31/16
273	CM/GC Contract Negotiations	5 days	Thu 9/1/16	Wed 9/7/16
274	School Board Approval of CM/GC Phase I	1 day	Wed 9/14/16	Wed 9/14/16
275	**Design Development Phase**	**50 days**	**Tue 8/2/16**	**Mon 10/10/16**
276	Design Development	40 days	Tue 8/2/16	Mon 9/26/16
277	Owner / CM/GC Review & Comment	10 days	Tue 9/27/16	Mon 10/10/16
278	**Construction Document Phase**	**96 days**	**Tue 10/11/16**	**Tue 2/21/17**
279	Receive CMGC Comments on DD Documents	1 day	Tue 10/11/16	Tue 10/11/16
280	Development of 50% Construction Documents for CMGC	30 days	Wed 10/12/16	Tue 11/22/16
281	Owner & CM/GC Review & Comment	15 days	Wed 11/23/16	Tue 12/13/16
282	Development of 90% Construction Documents for CMGC	20 days	Wed 12/14/16	Tue 1/10/17
283	Owner & CM/GC Review & Comment	15 days	Wed 1/11/17	Tue 1/31/17
284	Finalize Construction Documents	15 days	Wed 2/1/17	Tue 2/21/17
285	Issue 90% CDs for Permitting	1 day	Wed 1/11/17	Wed 1/11/17
286	**Conditional Use and Permitting Process**	**167 days**	**Tue 7/19/16**	**Wed 3/8/17**
287	Conditional Use Completeness Process	25 days	Tue 7/19/16	Mon 8/22/16
288	Conditional Use Application, Public Notice to Neighbors	45 days	Tue 8/23/16	Mon 10/24/16
289	Conditional Use Approval and Appeal Period	10 days	Tue 10/25/16	Mon 11/7/16
290	Building Permit	40 days	Thu 1/12/17	Wed 3/8/17
291	**Phase I CM/GC Preconstruction Services**	**114 days**	**Thu 9/15/16**	**Tue 2/21/17**
292	CM/GC evaluates Owner's Program to Budget Requirements	5 days	Thu 9/15/16	Wed 9/21/16
293	CM/GC to develop Project Schedule	84 days	Thu 9/15/16	Tue 1/10/17
294	Assist in planning, VE, and Finalization of DD Docs	18 days	Thu 9/15/16	Mon 10/10/16
295	CM/GC to provide DD Constructability Review & Estimate	10 days	Tue 9/27/16	Mon 10/10/16
296	Assist in planning, VE, and Finalization of CD Docs	66 days	Tue 10/11/16	Tue 1/10/17
297	CM/GC to provide 50% CD Const. Review and Estimate	15 days	Wed 11/23/16	Tue 12/13/16
298	Cont. to assist in planning, VE, and Finalization of CD Docs	30 days	Wed 1/11/17	Tue 2/21/17
299	CM/GC to provide GMP	15 days	Wed 1/11/17	Tue 1/31/17
300	Phase II Contract Negotiations	5 days	Wed 2/1/17	Tue 2/7/17
301	School Board Approval of CM/GC Phase II	1 day	Wed 2/8/17	Wed 2/8/17
302	**Phase II CM/GC Construction Services**	**506 days**	**Wed 11/23/16**	**Wed 10/31/18**
303	Potential EWA for Site Prep & Early Mobilization	60 days	Wed 11/23/16	Tue 2/14/17
304	CM/GC Bid Package I (Others per CM/GC)	20 days	Thu 2/9/17	Wed 3/8/17
305	Bid Reconciliation	5 days	Thu 3/9/17	Wed 3/15/17
306	Mobilize & Start Work	1 day	Thu 3/16/17	Thu 3/16/17
307	Construction Replacement School	326 days	Fri 3/17/17	Fri 6/15/18
308	Remediation & Demolition of Existing ES & Field installation	54 days	Mon 6/18/18	Thu 8/30/18
309	Substantial Completion	1 day	Fri 8/31/18	Fri 8/31/18
310	Final Completion	43 days	Mon 9/3/18	Wed 10/31/18
311	**Completion of all remaining 2015 Bond Projects**	200 days	Thu 11/1/18	Wed 8/7/19



Project: Preliminary Project Schedule 2
Date: June 30, 2016

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone