



AGENDA
JENSEN-OLSON ARBORETUM ADVISORY BOARD
Zoom Webinar
Wednesday, August 11, 2021 at 5:15 P.M.

- I. Call to Order**
- II. Approval of Agenda**
- III. Public Participation on Non-Agenda Items**
- IV. Approval of Minutes**
 - A. Meeting of May 12, 2021
 - B. Subcommittee Meeting of May 12, 2021
- V. New Business**
- VI. Unfinished Business**
 - A. Revenues withheld for household use
- VII. Committee, Liaison, and/or Staff Reports**
 - A. Chair Report
 - B. Manager Report
 - C. Friends of JOA Report
 - D. Other Business
- VIII. Adjournment**

Next JOAB Meeting: Wednesday, November 10 at 5:15 – Zoom Webinar

DRAFT MINUTES
JENSEN-OLSON ARBORETUM ADVISORY BOARD
 Zoom Webinar | Wednesday, May 12, 2021 5:15 P.M.

I. Call to Order at 5:17 pm by Chair, Nell McConahey

Present: Nell McConahey, Deborah Rudis, Ed Buyarski, Rose Evans, Peter Froehlich, Patricia Harris, Paulette Schirmer, Sarah Dolan

Absent: Kristin Bartlett

Staff Present: Ginger Hudson, Arboretum Manager; Amanda Babin, Staff Liaison

II. Agenda Changes – Pat White providing Friends of JOA staff report.

E. Buyarski moves to approve agenda, no objection. *Agenda approved.*

III. Public Participation on Non-Agenda Items – None.

IV. Approval of Minutes –

A. Wednesday, February 10, 2021: P. Harris moves to approve minutes, no objection. *Minutes adopted.*

V. New Business –

A. Welcome Sarah:

N. McConahey: We have a new board member, Sarah Dolan. Can you please tell us a bit about yourself?

S. Dolan: I've lived in Juneau for about 14 years, avid gardener, I have two young girls age 8 and 10, I love the Arboretum and I'm thrilled to serve on the board.

B. Memorial Policy Proposal:

G. Hudson: The memorial policy came up because folks have been asking if they can put plaques in the garden. Most of the current plaques are for someone who had a direction connection to the garden: board member, SEAL Trust, part of the founding of the garden. What are your thoughts about creating a policy for anybody to put something in the garden? CBJ has a policy but JOA is exempt from that and we can create our own. Our policy could be to not have one but we should have a statement so I can respond appropriately to visitors. All suggestions are welcome, having limitations on quantity, establishing a pricing structure, etc. Folks should know that when purchasing a memorial a large part of that fee is a donation.

E. Buyarski: I know we've done bricks, trees and scrubs in the past. A bench could be another option. Ginger would be the primary person. Consulting the gardener, the board, type of tree or shrub, is there a place or it, do we want that plant at the Arboretum. The gardeners will take care of it but we don't guarantee anything will live forever.

G. Hudson: Does anybody have an opinion on, are there too many benches, plaques, or signage already. Michele Elfers commented that you don't want to be walking around and feel like you're in a graveyard because every sign says in memory or dearly departed. The bricks are a great entry point. If folks want to spend \$5,000 to get a bench, are we fine with that? Donations could go through Friends of the JOA and be put back into the garden faster than if we went through the city.

N. McConahey: I think there's enough seating already at the arboretum, maybe one more bench. I like the idea of some kind of arch. Ginger had a suggestion of a tree with leaves and those leaves could be the names. There could be different sized leaves for different benefits or price points. I think it's a great idea with a lot of potential, income for Friends of JOA and a

way for people to remember others that's respectful to the arboretum and people wanting to honor others.

R. Evans: The lovely loo took so long to get funding. We could dream up a wish list of things we want. That way people have the option, if they have a bunch of money they can make a big structure or sculpture. For smaller items, have a certain place people could place something, like a rock thinking garden.

E. Buyarski: Over at the Shine, they have a bridge that has a plaque on one end of it for folks who donated to the bridge. If there is a specific item, I'm sure Ginger would like a bigger green house. Folks can contribute to the fundraising and their name would be recognized on a plaque, on the structure or something.

N. McConahey: I agree that the Friends of JOA is a good place for this to go but the Friends would have to be willing to take this on. We could have a discussion and come up with a plan similar to the bricks.

D. Rudis: I was thinking of what the gardens functional needs are. If we need any hardened pathways it could be a memorial walkway with bricks.

E. Buyarski: I was thinking the exact same thing. Whether it be bricks or a gravel path and people could donate by the bucket or ton of gravel.

Friends of JOA President Pat White: I have a dream of having a stable of walkers and canes for people, so a more established path would be great. Ginger hasn't presented this to the Friends of JOA board yet. The Friends of JOA will have to work on how much and what kind of involvement and how complicated this is going to get before coming to this board.

E. Buyarski: I'm sure folks would like a harden path for walkers and wheelchairs to get around more easily. The Lovely Loo has handicap access.

P. Harris: I think this discussion is really worthwhile so I'm looking forward to discussing this with the Friends of JOA Board. There are a couple signs currently on trees that are too obtrusive. If we're going to have a plaque for a tree I'd like to see it be lower so that it's not the first thing you see. You should see the tree and then see the plaque.

S. Dolan: I agree with that.

VI. Unfinished Business –

N. McConahey: Any unfinished business? We don't have any on the agenda but just a quick check.

P. Harris: Has any progress been made on commercial use?

N. McConahey: I will email Michelle Elfers for an update tomorrow. *Memo included in minutes (pages 5-6)*

VII. Committee Liaison and Staff Reports

A. Chair Report:

N. McConahey: I presented out annual report to the HRC back in March. They asked a couple quick questions, reappointed our current board members and appointed new board member Sarah Dolan to serve for the next three years. I attended the Lovely Loo ribbon cutting in April.

B. Manager's Report: *Included in packet.*

C. Friends of JOA –

Friends of JOA President Pat White: We have a new board member, Sue Baxter. The Lovely Loo ceremony went great. Next we'll be working on getting the inside of the Loo painted. In May we had low tide exploration day. We are hoping to do more events like this. We are looking to spend out raffle money from last year on a large event tent. Last weekend we participated in a spring themed event held by Don Abel. We have 12 volunteers who will begin docent training this week. A field guide is in the last stages of

editing and will begin production and then be for sale. It's about 135 pages of photos and descriptions of what's in the garden. Public gardens day is coming up on May 29th and Ginger is going to give two tours that day. We are planning our first Friends of JOA sponsored event for Solstice on June 20th. We are developing a logo and my hope is that over the next few years everyone will know that logo and say they've been out to the Arboretum.

G. Hudson: I attended the Don Abel spring event and was able to connect with another non-profit, Catholic Community Services. We discussed having seniors out at JOAAB in the future. They had the idea of raised garden beds to have more accessible gardening down the line.

D. Other business

P. Froehlich: Are we supposed to have an Assembly liaison? Could someone prompt Michele Elfer to reach out to the lawyers to get things moving on the tour stuff?

A. Babin: Edric is here and he's out PRAC liaison. I'm not sure about the Assembly, I can look into that. We invited SEAL Trust to attend this meeting but they had a conflicting meeting. They are hoping to attend in August or November.

N. McConahey: I will include the lawyer question in an email to Michele tomorrow.

D. Rudis: In the past, we've had fundraisers where an artist comes out to the Arboretum and hold a painting workshop. Have you been approached with any activities like that Ginger?

G. Hudson: I have not been approached for any painting workshops. The Friends of JOA and I have talked about a photography workshop. I think a botanical painting or drawing workshop would be fantastic.

D. Rudis: I think it would be a really good fundraiser. I suppose any fundraising would be a Friends of JOA task since we can't raise money.

Adjournment – 6:05p.m. *Having no further business before the Board.*

Respectfully submitted by Amanda Babin, Parks & Recreation Administrative Assistant I, 8/10/21.

Jensen-Olson Arboretum Advisory Board – Endowment Subcommittee

Wednesday May 12, 2021 about 6pm

Draft Minutes

Members Present: Nell McConahey, Rose Evans, Paulette Shirmer

Call to order-6:09pm

No agenda changes

No public participation

Nov 18, 2020 minutes approved as presented.

2020 CAFR for JOA permanent fund and CBJ adopted budget presented for information

P Shirmer mentioned the term for CAFR should be changed to ACFR

P Shirmer- explained the reason the JOAAB asked for the EC to review the use of the 'unrestricted funds' for household issues. Funds would be approved for use by the EC .

R Evans- There is a concern that the 'unrestricted funds' may not be available after the end of the fiscal year (June 30) and that the subject should be addressed timely. (There are currently about \$71,000 in 'unrestricted funds')

G Hudson-the household 'rent' funds are part of what is available.

N McConahey- As I recall, the 25% of income for the year is in a separate fund that can be used for expenses outside of existing covered expenses. This money may get swept away at the end of the fiscal year but not sure about that.

G Hudson-possible uses are well/well water, window replacement in house (CBJ likely to take care of this), kitchen renovation-lowest on the list.

Questions are- is the 25% money available to use this fiscal year, will it roll over or get swept away. Assuming the 25% (of \$12-13,000, one year's income), we are looking at around \$3,000. Nell will contact Michele Elfers to clarify availability. Caroline's wishes do allow for use of the Endowment money to keep the property viable for the long term. This is ahead of expanding the plantings/gardens in her statements.

N McConahey-I acknowledge there are some issues with the house. Should the EC move meeting to August to address using the available funds to make the house more livable for the residents. This may

be timelier in making the house more livable for the residents. This is agreed. December meeting will stand and be addressed if needed at the August meeting (following the JOAAB meetings)

R Evans- Funds may be gone the end of June, so we may need to move sooner. Nell will clarify with Michele.

G Hudson-Have these funds been used previously and how?

N McConahey-To my knowledge, the funds have not been used since the original set up of the separate funds. There were unanswered questions about how it could be used and some confusion due to staff changes.

R Evans-Sub committee minutes only go back to last year.

N McConahey- I will follow up with M Elfers with questions and answers and get info to Amanda to send to the members ASAP.

Meeting Adjourned. (about 6:30)

Respectfully Submitted,

Nell McConahey

DRAFT



Admiralty
ENVIRONMENTAL

641 W. Willoughby Ave., Suite 301 Juneau, AK 99801 (907) 463-4415

Jensen Olson Arboretum
23035 Glacier Hwy
Juneau, AK 99801

February 23, 2021

Domestic Drinking Water Sampling

Date of Collection: February 3, 2021

Sampling Location: Juneau, Alaska

Summary

Two samples from the Jensen Olson Arboretum were received at Admiralty Environmental, Juneau, AK on February 3, 2021.

The samples were analyzed for total coliform, *E. coli* bacteria, sulfate, nitrate as N, and nitrite as N. Samples were forwarded to Microbac Laboratories Inc., Merrillville, IN, for analysis of total metals and hardness. All laboratory acceptance criteria were met for all samples.

The complete report of the final lab results is enclosed. The official laboratory report follows this letter, and includes the analytical results, case narrative, chain of custody form, and cooler receipt form. All results from the Kitchen Sink are below federal maximum contamination levels (MCLs) set for drinking water. All results from the Basement are below primary federal MCLs. Iron and manganese results from the Basement are above the secondary MCLs set for drinking water.

| Analyte (Parameter) | Result - Basement | Result - Kitchen Sink | MCL |
|---|-------------------|-----------------------|------------|
| Total coliform bacteria | Absent | Absent | 0 (Absent) |
| <i>E. coli</i> bacteria | Absent | Absent | 0 (Absent) |
| Nitrite-N | <0.1 mg/L | <0.1 mg/L | 1.0 mg/L |
| Nitrate-N | <0.1 mg/L | <0.1 mg/L | 10 mg/L |
| Sulfate | 4.5 mg/L | 4.5 mg/L | 250 mg/L* |
| Total Arsenic | <1.0 ug/L | <1.0 ug/L | 10 ug/L |
| Total Lead | <1.0 ug/L | 2.2 ug/L | 15 ug/L |
| Total Iron | 6.8 mg/L | 0.21 mg/L | 0.3 mg/L* |
| Total Manganese | 0.16 mg/L | <0.001 mg/L | 0.05 mg/L* |
| Total Copper | 0.012 mg/L | 0.20 mg/L | 1.3 mg/L |
| *Denotes a secondary maximum contamination level | | | |

Kind Regards,

Diana Cote
Admiralty Environmental



641 W. Willoughby Ave., Suite 301 Juneau, AK 99801
(907) 463 - 4415

www.admiraltyenvironmental.com

Jensen Olson Arboretum

February 3, 2021

Juneau, AK

Analytical Report

Admiralty Environmental EPA ID AK 00976

AE 26113

| Sample Location | Basement Waterline | Kitchen Faucet |
|-------------------------------|--------------------|-------------------|
| Date & Time Sampled | 02/03/2021; 13:20 | 02/03/2021; 13:30 |
| Nitrate as N (mg/L) | <0.1 | <0.1 |
| Nitrite as N (mg/L) | <0.1 | <0.1 |
| Sulfate (mg/L) | 4.5 | 4.5 |
| Total Coliform Bacteria (P/A) | Absent | Absent |
| <i>E.coli</i> Bacteria (P/A) | Absent | Absent |

Quality Control:

| Analysis | MB | LCS | LCS Duplicate | RPD | Date/Time Commenced | Holding Time Met |
|-------------------|------|--------|---------------|------|---------------------|------------------|
| Nitrate | <0.1 | 101.7% | 101.0% | 0.7% | 02/03/2021; 15:46 | Yes |
| Nitrite | <0.1 | 104.8% | 104.5% | 0.2% | 02/03/2021; 15:46 | Yes |
| Sulfate | <0.3 | 102.3% | 102.6% | 0.3% | 02/03/2021; 15:46 | Yes |
| TC/ <i>E.coli</i> | --- | --- | --- | --- | 02/03/2021; 16:00 | Yes |

Analysis Description:

| Analysis | Method | MDL | PQL | Unit |
|-------------------|-----------|-------|-----|------|
| Nitrate | EPA 300.0 | 0.012 | 0.1 | mg/L |
| Nitrite | EPA 300.0 | 0.011 | 0.1 | mg/L |
| Sulfate | EPA 300.0 | 0.06 | 0.3 | mg/L |
| TC/ <i>E.coli</i> | SM 9223B | --- | --- | P/A |

Case Narrative:

All sample analysis QA/QC parameters were met for this event.

Key:

| | |
|------|------------------------------|
| LCS | Laboratory Control Standard |
| MB | Method Blank |
| MDL | Method Detection Limit |
| mg/L | Milligrams Per Liter |
| P/A | Presence/Absence |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TC | Total Coliform |

David Wetzel
President, Admiralty Environmental
dwetzel@admiraltyenv.com



Microbac Laboratories, Inc. - Chicagoland

CERTIFICATE OF ANALYSIS

21B0721

Project Description

Jensen Olson Arboretum/AE 26113

For:

David Wetzel

Admiralty Environmental, LLC

641 W. Willoughby Ave, Suite 301

Juneau, AK 99801-

Carey Gadzala

Project Manager

Tuesday, February 23, 2021

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc. - Chicagoland. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

250 West 84th Drive | Merrillville, IN 46410 | 219.769.8378 p | www.microbac.com



Microbac Laboratories, Inc. - Chicagoland

CERTIFICATE OF ANALYSIS

21B0721

Admiralty Environmental, LLC

David Wetzel
 641 W. Willoughby Ave, Suite 301
 Juneau, AK 99801-

Project Name: Jensen Olson Arboretum/AE 26113

Project / PO Number: N/A
 Received: 02/11/2021
 Reported: 02/23/2021

Sample Summary Report

| <u>Sample Name</u> | <u>Laboratory ID</u> | <u>Client Matrix</u> | <u>Sample Type</u> | <u>Sample Begin</u> | <u>Sample Taken</u> | <u>Lab Received</u> |
|--|----------------------|----------------------|--------------------|---------------------|---------------------|---------------------|
| 23035 Glacier HWY Basement Water Line | 21B0721-01 | Aqueous | | | 02/03/21 13:20 | 02/11/21 10:50 |
| 23035 Glacier HWY Kitchen Faucet | 21B0721-02 | Aqueous | | | 02/03/21 13:30 | 02/11/21 10:50 |



Microbac Laboratories, Inc. - Chicagoland

CERTIFICATE OF ANALYSIS

21B0721

Analytical Testing Parameters

Client Sample ID: 23035 Glacier HWY Basement Water Line

Sample Matrix: Aqueous

Lab Sample ID: 21B0721-01

Collection Date: 02/03/2021 13:20

| Inorganics Total | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|-----|-------|----|------|---------------|---------------|---------|
| SM 2340 B-2011 | | | | | | | | |
| Hardness Calcium/Magnesium (As CaCO ₃) | 57 | 16 | mg/L | 5 | | 02/12/21 1047 | 02/22/21 1405 | BTM |
| Metals Total by ICPMS | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
| EPA 200.8, Rv. 5.4 (1994) | | | | | | | | |
| Arsenic | <1.0 | 1.0 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1543 | RPL |
| Copper | 12 | 1.0 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1543 | RPL |
| Iron | 6800 | 100 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1543 | RPL |
| Lead | <1.0 | 1.0 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1543 | RPL |
| Manganese | 160 | 1.0 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1543 | RPL |

Client Sample ID: 23035 Glacier HWY Kitchen Faucet

Sample Matrix: Aqueous

Lab Sample ID: 21B0721-02

Collection Date: 02/03/2021 13:30

| Inorganics Total | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|-----|-------|----|------|---------------|---------------|---------|
| SM 2340 B-2011 | | | | | | | | |
| Hardness Calcium/Magnesium (As CaCO ₃) | <3.3 | 3.3 | mg/L | 1 | | 02/12/21 1047 | 02/17/21 1547 | RPL |
| Metals Total by ICPMS | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
| EPA 200.8, Rv. 5.4 (1994) | | | | | | | | |
| Arsenic | <1.0 | 1.0 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1547 | RPL |
| Copper | 200 | 1.0 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1547 | RPL |
| Iron | 210 | 100 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1547 | RPL |
| Lead | 2.2 | 1.0 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1547 | RPL |
| Manganese | <1.0 | 1.0 | ppb | 1 | | 02/12/21 1047 | 02/17/21 1547 | RPL |



Microbac Laboratories, Inc. - Chicagoland

CERTIFICATE OF ANALYSIS

21B0721

Batch Log Summary

| Method | Batch | Laboratory ID | Client / Source ID |
|---------------------------|---------|---------------|---------------------------------------|
| SM 2340 B-2011 | B171056 | B171056-BLK1 | |
| EPA 200.8, Rv. 5.4 (1994) | | B171056-BLK1 | |
| SM 2340 B-2011 | | B171056-BS1 | |
| EPA 200.8, Rv. 5.4 (1994) | | B171056-BS1 | |
| SM 2340 B-2011 | | B171056-MS1 | 21B0682-01 |
| EPA 200.8, Rv. 5.4 (1994) | | B171056-MS1 | 21B0682-01 |
| | | B171056-MSD1 | 21B0682-01 |
| SM 2340 B-2011 | | B171056-MSD1 | 21B0682-01 |
| EPA 200.8, Rv. 5.4 (1994) | | 21B0721-01 | 23035 Glacier HWY Basement Water Line |
| SM 2340 B-2011 | | 21B0721-02 | 23035 Glacier HWY Kitchen Faucet |
| EPA 200.8, Rv. 5.4 (1994) | | 21B0721-02 | 23035 Glacier HWY Kitchen Faucet |
| SM 2340 B-2011 | | B171056-MS2 | 21B0722-01 |
| EPA 200.8, Rv. 5.4 (1994) | | B171056-MS2 | 21B0722-01 |
| | | B171056-MSD2 | 21B0722-01 |
| SM 2340 B-2011 | | B171056-MSD2 | 21B0722-01 |
| | | 21B0721-01RE1 | 23035 Glacier HWY Basement Water Line |

Batch Quality Control Summary: Microbac Laboratories, Inc. - Chicagoland

| Inorganics Total | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|------|-------|--|---------------|--------|-------------|--------|-----------|-------|
| Batch B171056 - 200.8_PR - SM 2340 B-2011 | | | | | | | | | | |
| Blank (B171056-BLK1) | | | | Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | | | |
| Calcium | <0.50 | 0.50 | mg/L | | | | | | | |
| Magnesium | <0.50 | 0.50 | mg/L | | | | | | | |
| LCS (B171056-BS1) | | | | Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | | | |
| Calcium | 1.97 | 0.50 | mg/L | 2.0 | 98.4 | 80-120 | | | | |
| Magnesium | 2.03 | 0.50 | mg/L | 2.0 | 102 | 80-120 | | | | |
| Matrix Spike (B171056-MS1) | | | | Source: 21B0682-01 Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | | | |
| Calcium | 386 | 2.5 | mg/L | 2.0 | 384 | 74.1 | 75-125 | | | |
| Magnesium | 4.30 | 2.5 | mg/L | 2.0 | 2.39 | 95.4 | 75-125 | | | |
| Matrix Spike (B171056-MS2) | | | | Source: 21B0722-01 Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | | | |
| Calcium | 4.89 | 0.50 | mg/L | 2.0 | 2.87 | 101 | 75-125 | | | |
| Magnesium | 2.32 | 0.50 | mg/L | 2.0 | 0.210 | 105 | 75-125 | | | |
| Matrix Spike Dup (B171056-MSD1) | | | | Source: 21B0682-01 Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | | | |
| Calcium | 386 | 2.5 | mg/L | 2.0 | 384 | 87.4 | 75-125 | 0.0688 | 20 | |
| Magnesium | 4.31 | 2.5 | mg/L | 2.0 | 2.39 | 95.6 | 75-125 | 0.0839 | 20 | |
| Matrix Spike Dup (B171056-MSD2) | | | | Source: 21B0722-01 Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | | | |
| Calcium | 4.86 | 0.50 | mg/L | 2.0 | 2.87 | 99.6 | 75-125 | 0.649 | 20 | |
| Magnesium | 2.29 | 0.50 | mg/L | 2.0 | 0.210 | 104 | 75-125 | 1.27 | 20 | |



Microbac Laboratories, Inc. - Chicagoland

CERTIFICATE OF ANALYSIS

21B0721

| Metals Total by ICPMS | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----|-------|---|---------------|---|-------------|--------|-----------|-------|
| Batch B171056 - 200.8_PR - EPA 200.8, Rv. 5.4 (1994) | | | | | | | | | | |
| Blank (B171056-BLK1) | | | | Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | | | |
| Arsenic | <1.0 | 1.0 | ppb | | | | | | | |
| Copper | <1.0 | 1.0 | ppb | | | | | | | |
| Iron | <100 | 100 | ppb | | | | | | | |
| Lead | <1.0 | 1.0 | ppb | | | | | | | |
| Manganese | <1.0 | 1.0 | ppb | | | | | | | |
| LCS (B171056-BS1) | | | | Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | | | |
| Arsenic | 192 | 1.0 | ppb | 200 | | 96.1 | 85-115 | | | |
| Copper | 19.4 | 1.0 | ppb | 20 | | 97.2 | 85-115 | | | |
| Iron | 190 | 100 | ppb | 200 | | 94.9 | 85-115 | | | |
| Lead | 213 | 1.0 | ppb | 200 | | 107 | 85-115 | | | |
| Manganese | 21.4 | 1.0 | ppb | 20 | | 107 | 85-115 | | | |
| Matrix Spike (B171056-MS1) | | | | Source: 21B0682-01 | | Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | |
| Arsenic | 216 | 5.0 | ppb | 200 | ND | 108 | 70-130 | | | |
| Copper | 21.0 | 5.0 | ppb | 20 | 1.78 | 96.4 | 70-130 | | | |
| Iron | <500 | 500 | ppb | 200 | ND | 91.1 | 70-130 | | | |
| Lead | 200 | 5.0 | ppb | 200 | ND | 100 | 70-130 | | | |
| Manganese | 22.9 | 5.0 | ppb | 20 | ND | 115 | 70-130 | | | |
| Matrix Spike (B171056-MS2) | | | | Source: 21B0722-01 | | Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | |
| Arsenic | 194 | 1.0 | ppb | 200 | ND | 96.9 | 70-130 | | | |
| Copper | 20.7 | 1.0 | ppb | 20 | 1.06 | 98.4 | 70-130 | | | |
| Iron | 226 | 100 | ppb | 200 | 31.9 | 96.9 | 70-130 | | | |
| Lead | 214 | 1.0 | ppb | 200 | ND | 107 | 70-130 | | | |
| Manganese | 24.8 | 1.0 | ppb | 20 | 2.29 | 113 | 70-130 | | | |
| Matrix Spike Dup (B171056-MSD1) | | | | Source: 21B0682-01 | | Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | |
| Arsenic | 213 | 5.0 | ppb | 200 | ND | 107 | 70-130 | 1.03 | 20 | |
| Copper | 20.2 | 5.0 | ppb | 20 | 1.78 | 92.0 | 70-130 | 4.26 | 20 | |
| Iron | <500 | 500 | ppb | 200 | ND | 90.7 | 70-130 | 0.464 | 20 | |
| Lead | 201 | 5.0 | ppb | 200 | ND | 101 | 70-130 | 0.420 | 20 | |
| Manganese | 23.3 | 5.0 | ppb | 20 | ND | 116 | 70-130 | 1.59 | 20 | |
| Matrix Spike Dup (B171056-MSD2) | | | | Source: 21B0722-01 | | Prepared: 02/12/2021 Analyzed: 02/17/2021 | | | | |
| Arsenic | 194 | 1.0 | ppb | 200 | ND | 96.9 | 70-130 | 0.0287 | 20 | |
| Copper | 20.7 | 1.0 | ppb | 20 | 1.06 | 98.1 | 70-130 | 0.375 | 20 | |
| Iron | 222 | 100 | ppb | 200 | 31.9 | 95.3 | 70-130 | 1.44 | 20 | |
| Lead | 211 | 1.0 | ppb | 200 | ND | 106 | 70-130 | 1.27 | 20 | |
| Manganese | 24.7 | 1.0 | ppb | 20 | 2.29 | 112 | 70-130 | 0.358 | 20 | |



Admiralty Environmental
 641 W. Willoughby Ave., Suite 301
 Juneau, AK 99801
 (907) 463-4415

CHAIN OF CUSTODY/TRANSMITTAL RECORD
 PAGE 1 OF 1

| CLIENT: Jensen Olson Arboretum | | | | Home Well | | | | AE 26113 2130721 FIELD RESULTS pH Temp | | | | | |
|--|--------|--|-----------------------------|------------------|--|--|--|--|--|--|--|--|--|
| REPORT TO: Ginger Hudson | | | PHONE#: 907-789-0139 | | | # OF BOTTLES Total As, Pb, Fe, Mn, Cu, Hardness < 2.0 Nitrate, Nitrite, Ammonia, Sulfate | | | | | | | |
| ADDRESS: 23035 Glacier Hwy Juneau, AK 99801 | | | SAMPLED BY: Taylor Murph | | | | | | | | | | |
| EMAIL: taylor.murph@juneauak.org | | | | | | | | | | | | | |
| COMMENTS: original copper water line into basement | | | | | | | | | | | | | |
| DATE | TIME | PROPERTY ADDRESS + SAMPLE LOCATION | MATRIX | # OF BOTTLES | | | | | | | | | |
| 02/03/21 | 11:20p | 23035 Glacier Hwy basement water line | H ₂ O | 1 | | | | | | | | | |
| 02/09/21 | 1:30p | 23035 Glacier Hwy Kitchen faucet | H ₂ O | 2 | | | | | | | | | |
| RELINQUISHED BY: | | RECEIVED BY: | | RELINQUISHED BY: | | RECEIVED BY: | | Section to Be Completed by Receiving Laboratory Temp °C: 7.26 4.2 Thermo ID#: Lab#7 IR #1 Condition of Custody Seals: ✓ ✓ Initialed By: ET MR Shipped Via: — FedEx | | | | | |
| Signature | | Signature | | Signature | | Signature | | | | | | | |
| Printed Name | | Printed Name | | Printed Name | | Printed Name | | | | | | | |
| Date | | Date | | Date | | Date | | | | | | | |
| Time | | Time | | Time | | Time | | | | | | | |

21B0721 Carey Gadzala
 Admiralty - Juneau, AK
 Jensen Olson Arboretum/AE 26113
 02/11/2021



* rec'd LZhrs



Admiralty Environmental
 641 W. Willoughby Ave., Suite 301
 Juneau, AK 99801
 (907) 463-4415

CHAIN OF CUSTODY/TRANSMITTAL RECORD
 PAGE 1 OF 1

| CLIENT: Jensen Olson Arboretum | | | | | Home Well | | | | | | | | | | AE 26113 | | | | | | | | | | | | |
|---|-------|------------------------------------|--|--|-----------------------------|---|----------------|-----------------------------------|------------------------------------|--|--|--|--|--|------------------------|--|--|--|--|--|--|--|--|---|--|--|--|
| REPORT TO: Ginger Hudson | | | | | PHONE#: 907-789-0139 | | | | | # OF BOTTLES Total Coliform Nitrate - N, Nitrite - N, Sulfate Total As, Pb, Fe, Mn, Cu, Hardness ≤ 2.0 | | | | | | | | | | FIELD RESULTS pH Temp | | | | | | | |
| ADDRESS: 23035 Glacier Hwy Juneau, AK 99801 | | | | | SAMPLED BY: Taylor Murph | | | | | | | | | | | | | | | | | | | | | | |
| EMAIL: taylor.murph@juneau.org | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS: original copper water line into basement | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | TIME | PROPERTY ADDRESS + SAMPLE LOCATION | | | MATRIX | # | Total Coliform | Nitrate - N, Nitrite - N, Sulfate | Total As, Pb, Fe, Mn, Cu, Hardness | | | | | | | | | | | | | | | | | | |
| 02/03/21 | 1:20p | 23035 Glacier Hwy | | | H ₂ O | 3 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | |
| | | basement waterline | | | H ₂ O | 3 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | |
| 02/03/21 | 1:30p | 23035 Glacier Hwy | | | H ₂ O | 3 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | |
| | | Kitchen faucet | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: | | | | | RECEIVED BY: | | | | | RELINQUISHED BY: | | | | | | | | | | RECEIVED BY: | | | | Section to Be Completed by Receiving Laboratory Temp °C: * 7.66 _____ Thermo ID#: Lab# 7 _____ Condition of Custody Seals: <input checked="" type="checkbox"/> _____ Initialed By: ET _____ Shipped Via: _____ | | | |
| Signature | | | | | Signature | | | | | Signature | | | | | | | | | | Signature | | | | | | | |
| Printed Name | | | | | Printed Name | | | | | Printed Name | | | | | | | | | | Printed Name | | | | | | | |
| Date | | | | | Date | | | | | Date | | | | | | | | | | Date | | | | | | | |
| Time | | | | | Time | | | | | Time | | | | | | | | | | Time | | | | | | | |
| Taylor Murph | | | | | Emily Timm | | | | | | | | | | | | | | | | | | | | | | |
| 2/3/2021 | | | | | 2/3/21 | | | | | | | | | | | | | | | | | | | | | | |
| 2:23 PM | | | | | 1423 | | | | | | | | | | | | | | | | | | | | | | |

* rec'd 2hrs



Admiralty Environmental Cooler Receipt Form

Client: **Admiralty Environmental, LLC**

Project: **Jensen Olsen Arboretum**

AE# AE 26113

Date Opened: **2/3/2021** Opened by: **E. Timm**

A. External Cooler Conditions

• Local Sampling Event

1. Project ID: **Home Well**

2. COC Attached? **yes** Properly Completed? **yes** Signed by AE employee? **yes**

Small Temp. Blank **7.66** (temp in Celsius)
Large Temp. Blank: **n/a** (temp in Celsius)

• Air-Transported Sampling Event

1. Project ID: **n/a**

2. COC Attached? **n/a** Properly Completed? **n/a** Signed by AE employee? **n/a**

3. Airbill attached? **n/a** Airbill #: **n/a**

4. Custody Seals? **n/a**

5. Seals intact? **n/a**

Temp. Blank: **n/a** (temp in Celsius)

COMMENTS:

B. Sample Conditions

Number of Samples Received: **2** Packing type: **cooler**

Number of Bottles Received: **6**

1. Samples in proper bags? **yes**

2. Bottles intact? **yes**

3. Sufficient sample volume? **yes**

4. Labels agree with COC? **yes**

5. Samples delivered within holding time? **yes**

6. Sample preservation checked? **yes, <2 (metals, Hardness)**

Problems encountered: **no**

Was the project manager called? **no**

COMMENTS:

Signature: 

Date and time: **2/3/21, 1423**

Jensen-Olson Arboretum, Manager's Report to the Advisory Board

August 11, 2021

- The cool and second rainiest May on record stunted the growth of most direct seeded vegetables. Despite the rain, we succeeded in sheltering a few pumpkins that have set fruit! Otherwise the weather has been fine for great perennial displays.
- The extended May rain did affect seed production of early season Primula. Late season Primula have ripening seed heads at this time.
- Successful BugDay held with family groups separated for Covid mitigation. Over 30 people in attendance. Volunteers included FJOA members, USFS employees, AKF&W employee, and librarians.
- We used BugDay as one of our field day collections and identifications of Alaska bumble bees and the plants they pollinate. This is part of the partnership with the BLM and UAA herbarium's Alaska Bee Atlas Survey.
- The first and we hope to be annual summer Solstice fundraiser held onsite by the FJOA on June 20. Lite dinner, music, and a silent auction was held.
- Sealaska Heritage conducted two devil's club, *S'áxt'*, *Oplopanax horridus*, harvesting workshops at JOA on May 12 and July 1. Overgrown specimens by the manager's residence were removed, plants were trimmed along the driveway. Sealaska brought interns from around the county to the second workshop. At each event, participants learned where, when, and how to harvest then processed for personal use offsite.
- 47 lbs of vegetables, herbs, and fruit have been donated to Zach Gordon Youth Center, the Glory Hall, and traded to Coppa for rhubarb sorbet—the sorbet donated to P&R admin office.
- Two weddings are scheduled at JOA in August.
- An offer has been made to an artist to beautify the interior of the Lovely Loo vault toilet, we are awaiting a reply.
- The underground fuel oil storage tank onsite since the 1960s when the current residence was built is being replaced. A new tank will be installed above ground next to the propane tank on the exterior wall outside the manager's office. The in-ground tank will be emptied, cut open, and filled with sand. Work to be completed in August-Sept.
- AEL&P has advised that the European mountain ash, *Sorbus acuparia*, growing near the onsite power pole needs to be removed. AEL&P has offered to take the tree down as a donation. I will be

requesting permission from SEAL Trust per the conservation easement. I will also request to remove two other ash in the same area that are encroaching on two native coastal pines, *Pinus contorta*.

- Staff of Parks and Landscape came to JOA with a bobcat and chipper/shredder to help with two projects: turning a large, years-old compost pile and shredding the large bits; and removing the previous stone pathway leading from the driveway to the house and shed. By time this JOAAB meeting occurs, the front path should be complete, composed of smooth pre-cast pavers with a natural stone side path leading to the Primula display shelf by the gardener's shed.
- At the end of May I lost one of my seasonal staff who took an offer for a higher paying opportunity. It took a while to find another groundskeeper assistant, I actually recruited Jacob Dangeli from Don Abel. Jacob works at Eaglecrest in the winter. Jacob is from Juneau, has worked in construction, studied Formline art, and is interested in gardening. He began work at JOA on July 7. He has been invaluable in catching us up with groundwork, heavy projects, especially the fuel tank pad and front path renovation.
- I hope everyone saw my interview in the Juneau Empire on July 25. I spoke to KINY on Capital Chat on Friday the 23rd.

Thank you for your support of the arboretum.

Submitted by Ginger Hudson

JOAAB 8-11-21

Manager's memo for residence improvements considering use of non-restricted funds

The following is a list of improvements in order of priority suggested by the current manager. These are for JOAAB to think about as we continue discussions of the endowment's unrestricted funds use. Many items will improve operations at JOA, all will improve quality of life for the resident manager. There are also potential funding ideas within the list that may amend the funds or cover costs of improvements without use of the funds.

Of equal importance and top of the list: water and internet quality

Internet service is below rural standards of 25 Mb/s. The current service is generally 1 – 1.1 Mb/s. Impacts: manager cannot act as online presenter; file transfer is extremely slow reducing management productivity; two people cannot use the internet at the same time on R&R. CBJ and JOA manager are working on cost estimate, it will be well above \$25,000. Potential solution: America Rescue Plan Act (ARPA) grant for Covid mitigation distance learning, through AK state library to extend hi-speed internet from Cohen Dr. to JOA; investment in Starlink when it becomes available (1-2 yrs)

A water quality assessment is included with this package. Though the tables indicate tested levels are within EPA guidelines, please note that water quality is lower coming from the tap. It's speculated copper and lead leach into the house water supply putting lead very close to the minimum allowable limits. Sulfates are high on both the well and tap water supply. Neither water softener nor standard countertop filters reduce all of these concerns. The sulfates persist in counter top filters making food and drinks unpalatable. Current solutions: Bottled water delivery for drinking and cooking for residence and summer garden staff—at JOA budget expense. The residence bathroom cold water tap is fitted with an under-sink replaceable filter. The showerhead has been fitted with a filter that makes the water usable at a cost of water pressure. These filters require changing every 4-6 months depending on use and water quality. Potential solutions: a new well in a different location; whole house filter; cistern. Costs and who would pay for these unknown at this time

Addition of electrical outlets in basement and exterior of structures. There are no electrical plugs in the basement except for washer/dryer and one by a workbench on the north end; two outlets in garage; and two in shed. When the gardener's shed was renovated a new electrical panel was installed in the shed. There is a relatively new panel in the residence basement. Each have space to add breakers that could run lines for more plug outlets. Improved use of basement by residents with more outlets. There is the potential to run more electric tools, or charge batteries and eliminate use of some gas-powered equipment.

Small power equipment onsite for moving soil, heavy materials, snow plow. Potential solutions: there is a snow blower attachment and trailer attachment available for the John Deere tractor mower onsite. However, the model onsite is no longer made, sourcing the attachments will be a challenge. \$1800-\$4000. The Deere comes up for fleet replacement in 2026. At that time, combining non-restricted and regular budget funds could purchase a different kind of machine. (this may all be done with budget)

Cell tower signal booster

Kitchen cabinet upgrades. A few drawers and cabinets are unusable due to wear and or rusted metal bottoms and walls.

Replace dirt garage floor with packed crushed gravel, or concrete depending on longevity of garage

Insulate open floor joists between basement and living area to reduce noise of boiler and water pump