



**Addendum #02**

**Issued: Friday, August 16, 2024**

**Informational Meeting & Site Tour Information Request**

Project: 2024-343  
 Project Name: MIS WWTP Evaluation + LOSS Design for McNeil Island  
 Phase: Request for Qualifications  
 Meeting Location: Teams  
 Date/Time: August 1st, 2024 at 1:00 PM PT  
 DES PM: Jessica Whitenack, [jessica.whitenack@doc1.wa.gov](mailto:jessica.whitenack@doc1.wa.gov)

**NOTICE TO ALL POTENTIAL RESPONDENTS**

The Request for Qualifications (RFQ) is modified as set forth in this Addendum. The original RFQ documents remains in full force and effect, except as modified by this addendum, which is hereby made part of the RFQ. Respondent shall take this Addendum into consideration when preparing and submitting its Statement of Qualification.

Visit our webpage for additional information: <https://des.wa.gov/services/facilities-and-leasing-management/architecture-engineering-design-consultants/current-projects-advertised-consultant-selection>

**1. Questions and Answers from the Informational Meeting:**

Questions	Answers
Are there DMR records?	Yes, see attached reports.
Do you have plans for the existing system?	Full sheet plans will be available to the selected consultant.
Access to biosolid land application?	Yes, see attached reports.

**2. Sign-in as captured in chat:**

1. Jennifer Hambrook - [jhambrook@windsorengineers.com](mailto:jhambrook@windsorengineers.com)
2. David Prinzhorn - [David@adcwastewater.com](mailto:David@adcwastewater.com)
3. Rocky Anderson - [rocky@adcwastewater.com](mailto:rocky@adcwastewater.com)
4. Grizelda Sarria – Tetra Tech (no email listed)
5. Olwyn Lintecum - [olwyn.lintecum@tetrattech.com](mailto:olwyn.lintecum@tetrattech.com)
6. Morgan Reynolds – Tetra Tech (no email listed)
7. Lauren Wittkopf - [Lauren.Wittkopf@kpff.com](mailto:Lauren.Wittkopf@kpff.com)
8. Rosie Daniel - [rosie.daniel@confenv.com](mailto:rosie.daniel@confenv.com)
9. Jeffrey F Wilson - [jwilson@verdantas.com](mailto:jwilson@verdantas.com)
10. Clint Pierpoint - [Clint.Pierpoint@kpff.com](mailto:Clint.Pierpoint@kpff.com)
11. Ron Adams - [ron@willamettecra.com](mailto:ron@willamettecra.com)



## Addendum #02

Issued: Friday, August 16, 2024

### Informational Meeting & Site Tour Information Request

12. Sioghan O'Reily-Shah - [soreillyshah@engeo.com](mailto:soreillyshah@engeo.com)
13. Travis Tormanen - [TTormanen@WindsorEngineers.com](mailto:TTormanen@WindsorEngineers.com)
14. Geoff Baldwin - [geoff.baldwin@tetrattech.com](mailto:geoff.baldwin@tetrattech.com)
15. Jennie Shaw - [jennie@willamettecra.com](mailto:jennie@willamettecra.com)
16. [Pete Munoz – pnuoz@biohabitats.com](mailto:PeteMunoz@biohabitats.com)
17. [Ken Alexander – kalexander@windsorengineers.com](mailto:Kalexander@windsorengineers.com)
18. [Eric Dienst – eric.dienst@tetrattech.com](mailto:eric.dienst@tetrattech.com)
19. [Adam Alsobrook – adam@willamettecra.com](mailto:adam@willamettecra.com)

### 3. Attachments:

WWTP Facility Reports provided by Wastewater Treatment Plant Operator

This addendum does not amend the due date or time for submission of Statements of Qualifications.

**End of Addendum #02**

# WA DOC MCNEIL ISLAND WWTP

**Facility  
ID:** 295

**Facility Type:** Biosolids  
Management

**Physical Address:** MCNEIL ISLAND SPECIAL COMMITMENT CENTER, , WA **County:**Pierce

Provide a brief description of your biosolids management practices.

Aerated digestion with  
lime stabilization.  
Biosolids applied to  
grassy fields on  
isolated island

Did you begin the reporting year with any biosolids/products stored on site from a previous calendar year?  Yes  No

Did you end the reporting year with any biosolids stored on site?  Yes  No

Did you receive biosolids (not septage) from **any** other facility during 2019?  Yes  No



Did you receive any septage during 2019?  Yes  No

## Biosolids Management Activities

**How many dry tons of biosolids did you produce during 2019?** 22.45

Did you apply biosolids directly to a site specifically permitted for your facility, **or** sell or give away any Exceptional Quality biosolids?  Yes  No

Did you send any biosolids off site to another permitted facility, or were any of your biosolids incinerated?  Yes  No

(i) Do not include biosolids you apply directly to a site specifically permitted for your facility, or Exceptional Quality biosolids you sold or gave away.

(ii) Provide the name of the facility, permit number, and dry tons or gallons transferred.

(iii) List all destinations separately.

Number of pollutant monitoring events during the reporting year 1

Pollutants Exceeding Table 1 Value

As  Cd  Cu  Hg  Mo  Ni  Pb  Se  Zn

Pollutants Exceeding Table 3 Value

As  Cd  Cu  Hg  Mo  Ni  Pb  Se  Zn

How did you comply with pathogen reduction requirements?

Class A

Alternative 1 (time/temperature)

Alternative 2  
(pH/time/temperature/% solids)

Alternative 3 (process to further  
reduce pathogens [PFRP])

- Composting
- Heat treatment
- Heat drying
- Pasteurization
- Beta ray irradiation
- Gamma ray irradiation
- Thermophilic aerobic digestion

Alternative 4 (PFRP equivalent)

Requirement does not apply

Did not meet requirement(s)

Class B

Alternative 1 (7 samples)

Alternative 2 (process to significantly  
reduce pathogens [PSRP])

- Aerobic digestion
- Air drying
- Anaerobic digestion
- Composting
- Liming

Alternative 3 (PSRP equivalent)



How did you comply with vector attraction reduction requirements?

- Alternative 1 (38% volatile solids reduction)
    - Alternative 1a (bench test-anaerobic)
    - Alternative 1b (bench test-aerobic)
  - Alternative 2 (SOUR)
  - Alternative 3 (aerobic process)
  - Alternative 4 (pH stabilization)
  - Alternative 5 ( $\geq 75\%$  solids)
  - Alternative 6 ( $\geq 90\%$  solids)
  - Alternative 7 (injection)
  - Alternative 8 (incorporation)
- 
- Requirement does not apply
  - Did not meet requirement(s)

Comments:

2019 Digester emptied and cleaned for repairs to pump and guide rails.

## Attached Files

### Signature Authority

[designated authority Henry Mack.pdf](#)    Uploaded: 2020-02-26

### Monitoring and Analytical Data

[outside lab 2019 biosolids.pdf](#)    Uploaded: 2020-02-26

[in house total solids 2019.pdf](#)    Uploaded: 2020-02-26

[in house ph 2019.pdf](#)    Uploaded: 2020-02-26

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## This form is prepared by

Name: Horton, Walter  
Email: [wmhorton@doc1.wa.gov](mailto:wmhorton@doc1.wa.gov)  
Phone: (253) 254-2459

## This form is submitted by

I understand that the proper signatory is the responsible official as identified under [WAC 173-308-310 \(10\)](#) **Signatories to permit applications and reports**, and is responsible for the content of this annual report when it is submitted. I declare that:

- I am the responsible official as described in [WAC 173-308-310\(a\)](#)
- I am the duly authorized signatory for this report in accordance with [WAC 173-308-310\(b\)](#)
- I am not the responsible official but am submitting this report with the full knowledge and approval of the responsible official

Responsible Official Name: Henry Mack    Title: General Manager  
Submitted By: M, Walter  
Submitted Date: 2/26/2020



Permit Number: WA0040002

Permittee: McNeil Island Special Commitment Center WWTP

Facility County: Pierce

Receiving Waterbody: Balch And Cormorant Passages

Monitoring Period: 12/01/2023 - 12/31/2023

Outfall: 001 - BALCH PASSAGE

Version: 5

Week	Monitoring Point	Total BOD5 5-Day 20°C (mg/L) Flow: Compos. sample (24 hour)				Total BOD5 5-Day 20°C (mg/L) Flow: Compos. sample (24 hour)				Total BOD5 5-Day 20°C (mg/L) Flow: Compos. sample (24 hour)				Total BOD5 5-Day 20°C (mg/L) Flow: Compos. sample (24 hour)			
		IN1	IN1	IN1	IN1	001	001	001	001	001	001	001	001	001	001	001	
1-F	12/1/23					0.0708								7.0		M	
1-Sa	12/2/23					0.0568								6.9		M	
2-Su	12/3/23					0.0526								7.0		M	
2-M	12/4/23	362	564.3	607	946.2	0.1869	<3.0	4.7	99	8.7	14	99	7.2		M		
2-T	12/5/23					0.3439							6.9	500		M	
2-W	12/6/23					0.1015							7.4			M	
2-Th	12/7/23	28	20.6	69	50.8	0.0883	<3.0	2.2	89	5.5	4	91	7.0			M	
2-F	12/8/23					0.0418							7.2	<2		M	
2-Sa	12/9/23					0.0980							7.1			M	
3-Su	12/10/23					0.0639							7.1			M	
3-M	12/11/23	243	74.8	265	81.6	0.0369	<3.0	0.9	99	3.1	1.0	99	6.9	<2		M	
3-T	12/12/23					0.0298							7.2	<2		M	
3-W	12/13/23					0.0260							7.0			M	
3-Th	12/14/23	153	35.3	129	29.8	0.0277	<3.0	0.7	98	3.4	1.0	97	7.1			M	
3-F	12/15/23					0.0250							7.1	<2		M	
3-Sa	12/16/23					0.0254							7.1			M	
4-Su	12/17/23	236	46.1	93.6	18.3	0.0234	3.5	0.7	99	3.9	1.0	96	6.9			M	
4-M	12/18/23					0.0252							7.1	<2		M	
4-T	12/19/23					0.0350							6.9			M	
4-W	12/20/23	376	94.1	813	203.4	0.0300	4.2	1.1	99	6.6	2.0	99	7.2			M	
4-Th	12/21/23					0.0464							7.0	7		M	
4-F	12/22/23					0.026							7.0			M	
4-Sa	12/23/23					0.022							7.2			M	
5-Su	12/24/23					0.023							7.1			M	
5-M	12/25/23					0.050							7.1			M	
5-T	12/26/23	140	33.2	73.0	17.3	0.028	<3.0	0.7	98	7.3	2.0	90	7.0			M	
5-W	12/27/23	57.0	12.7	45.8	10.2	0.027	<3.0	0.7	95	4.6	1.0	90	6.8	<2		M	
5-Th	12/28/23					0.027							6.9	<2		M	
5-F	12/29/23					0.024							6.8			M	
5-Sa	12/30/23					0.026							6.9			M	
6-Su	12/31/23					0.023							7.1			M	



Daily Minimum												6.6		
												>= 6.0 (RO)		
Average	199.4	23.42	261.9	43.79	0.055	3.213	0.375	97	5.39	0.817	95			
	Report Only	DL: 1350	Report Only	DL: 1200	DL: 0.45	<= 30	<= 113	>= 85	<= 30	<= 113	>= 85			
Weekly Average						3.85	11.04		5.95	17.01				
						<= 45	<= 169		<= 45	<= 169				
Maximum	376	564.3	813	945.2	0.344									
	Report Only	Report Only	Report Only	Report Only	Report Only									
Daily Maximum												7.4		M
												<= 9.0 (RO)		<= 0.75 (RO)
Monthly geometric mean													4.245	
													<= 200	
Weekly Geometric Mean													2.7007	
													<= 400	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3/13/2024 2:02:37 PM

Matthew Muth

Signature

Date



Permit Number: WA0040002

Permittee: McNeil Island Special Commitment Center WWTP

Facility County: Pierce

Receiving Waterbody: Balch And Cormorant Passages

Monitoring Period: 01/01/2024 - 01/31/2024

Outfall: 001 - BALCH PASSAGE

Version: 3

Week	Monitoring Point	IN1				001				001				001			
		Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	Flow (MGD)	
1-M	1/1/24					0.0232								7.0		M	
1-T	1/2/24	129	42.7	69.1	22.9	0.0397	<3.0	1.0	97.7	5.6	1.9	98.6	7.0	<2	M		
1-W	1/3/24					0.0264							7.1		M		
1-Th	1/4/24	156	35.1	125	28.1	0.0270	<3.0	0.7	98.1	7.3	1.6	94.2	7.0	<2	M		
1-F	1/5/24					0.0446							7.1		M		
1-Sa	1/6/24					0.0380							7.0		M		
2-Su	1/7/24					0.0287							7.0		M		
2-M	1/8/24					0.0823							7.1		M		
2-T	1/9/24					0.0849							7.1		M		
2-W	1/10/24					0.0456							7.0		M		
2-Th	1/11/24	119	35.9	62.0	18.7	0.0362	<3.0	0.9	97.5	10.8	3.3	82.6	7.1	<2	M		
2-F	1/12/24	71.2	18.4	57.5	14.9	0.0310	<3.0	0.8	95.8	13.2	3.4	77.0	7.1	<2	M		
2-Sa	1/13/24					0.0325							7.3		M		
3-Su	1/14/24					0.0305							7.1		M		
3-M	1/15/24					0.0351							7.2		M		
3-T	1/16/24	102	38.0	95.9	35.8	0.0447	<3.0	1.1	97.1	11.8	4.4	87.7	7.3	240	M		
3-W	1/17/24					0.0733							7.2		M		
3-Th	1/18/24	134	179.4	180	240.9	0.1605	<3.0	4.0	97.8	19.1	25.6	89.3	6.9	4	M		
3-F	1/19/24					0.1206							7.3		M		
3-Sa	1/20/24					0.1211							7.3		M		
4-Su	1/21/24					0.1618							7.3		M		
4-M	1/22/24					0.1313							7.3		M		
4-T	1/23/24	39.0	19.1	83.1	40.8	0.0588	<3.0	1.5	92.3	14.8	7.3	82.2	7.3	2	M		
4-W	1/24/24					0.0897							7.1		M		
4-Th	1/25/24	345	191.6	676	375.0	0.0666	<3.0	1.7	99.1	14.6	8.1	98.0	7.0	<2.0	M		
4-F	1/26/24					0.0772							6.9		M		
4-Sa	1/27/24					0.1200							6.9		M		
5-Su	1/28/24					0.0743							6.9		M		
5-M	1/29/24	215	89.5	318	132.3	0.0499	<3.0	1.2	98.6	9.2	3.8	97.1	7.0		M		
5-T	1/30/24					0.0441							7.0	<2.0	M		
5-W	1/31/24	39.0	13.7	70.4	24.7	0.0421	<3.0	1.1	92.3	10.7	3.8	84.8	7.2		M		



Daily Minimum												6.9		
												>= 6.0 (RO)		
Average	134.92	74.3	193	106.2	0.066	<3.0	1.4	96.6	11.7	6.4	89.2			
	Report Only	DL: 1350	Report Only	DL: 1200	DL: 0.45	<= 30	<= 113	>= 85	<= 30	<= 113	>= 85			
Weekly Average						<3.0	1.7		15.5	20.8				
						<= 45	<= 169		<= 45	<= 169				
Maximum	192	259.1	380	512.8	0.1618									
	Report Only	Report Only	Report Only	Report Only	Report Only									
Daily Maximum												7.3		M
												<= 9.0 (RO)		<= 0.75 (RO)
Monthly geometric mean													0.565498	
													<= 200	
Weekly Geometric Mean													1.4911356	
													<= 400	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3/13/2024 2:02:48 PM

Matthew Muth

Signature

Date



Permit Number: WA0040002

Permittee: McNeil Island Special Commitment Center WWTP

Facility County: Pierce

Receiving Waterbody: Balch And Cormorant Passages

Monitoring Period: 02/01/2024 - 02/29/2024

Outfall: 001 - BALCH PASSAGE

Version: 2

Week	Monitoring Point	Total Suspended Solids (TSS) (mg/L) (1825)				Total Phosphorus (TP) (mg/L) (1825)				Total Nitrogen (TN) (mg/L) (1825)				Dissolved Oxygen (DO) (mg/L) (1825)				pH (1825)			
		IN1	IN1	IN1	IN1	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	
1-Th	2/1/24					0.0352									7.0	<2.0	M				
1-F	2/2/24					0.0292									7.1		M				
1-Sa	2/3/24					0.0281									7.1		M				
2-Su	2/4/24					0.0261									7.0		M				
2-M	2/5/24	480	116.1	836	202.2	0.0290	<3.0	0.7	99.4	12.1	2.9	98.6	7.2		M						
2-T	2/6/24					0.0272									7.0	2.0	M				
2-W	2/7/24	285	55.4	555	107.8	0.0233	<3.0	0.6	98.9	9.0	1.7	98.4	6.8		M						
2-Th	2/8/24					0.0226									6.8	<2.0	M				
2-F	2/9/24					0.0208									6.7		M				
2-Sa	2/10/24					0.0237									6.6		M				
3-Su	2/11/24	359	88.6	158	39.0	0.0296	4.4	1.1	98.8	5.3	1.3	96.6	6.7		M						
3-M	2/12/24					0.0358									6.8	<2.0	M				
3-T	2/13/24					0.0304									6.8		M				
3-W	2/14/24					0.0614									6.9		M				
3-Th	2/15/24	81.2	35.5	83.7	36.6	0.0524	4.4	0.9	95	19.8	9	76	6.9		M						
3-F	2/16/24					0.0322									7.1	<2.0	M				
3-Sa	2/17/24					0.0305									7.3		M				
4-Su	2/18/24					0.0319									7.2		M				
4-M	2/19/24	111	32.5	109	31.9	0.0351	<3.0	0.9	97	6.2	2	94	7.1		M						
4-T	2/20/24					0.0390									7.2	<2.0	M				
4-W	2/21/24	148	64.7	284	124.7	0.0524	<3.0	1.3	98	25.2	11	91	6.9		M						
4-Th	2/22/24					0.0380									7.0	4	M				
4-F	2/23/24					0.0388									6.9		M				
4-Sa	2/24/24					0.0417									7.0		M				
5-Su	2/25/24					0.0459									7.0		M				
5-M	2/26/24	600	168.1	550	434.3	0.0336	<3.0	0.8	100	7.3	2	100	7.1		M						
5-T	2/27/24					0.0349									6.9	<2.0	M				
5-W	2/28/24	670	711.3	1250	1327.1	0.1273	5.1	5.4	99.2	40.5	43.0	96.8	7.0		M						
5-Th	2/29/24					0.1114									6.8	2	M				
Daily Minimum														6.6							



												>= 6.0 (RO)		
Average	341.8	41.04	603.2	74.29	0.04	3.613	0.41	99	15.7	2.34	97			
	Report Only	DL: 1350	Report Only	DL: 1200	DL: 0.45	<= 30	<= 113	>= 85	<= 30	<= 113	>= 85			
Weekly Average						4.4	4.66		23.9	25.31				
						<= 45	<= 169		<= 45	<= 169				
Maximum	670	711.3	1550	1327	0.127									
	Report Only	Report Only	Report Only	Report Only	Report Only									
Daily Maximum												7.3		M
												<= 9.0 (RO)		<= 0.75 (RO)
Monthly geometric mean													2.16	
													<= 200	
Weekly Geometric Mean													0.451545	
													<= 400	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3/21/2024 1:20:58 PM

Matthew Muth

Signature

Date





Permit Number: WA0040002

Permittee: McNeil Island Special Commitment Center WWTP

Facility County: Pierce

Receiving Waterbody: Balch And Cormorant Passages

Monitoring Period: 03/01/2024 - 03/31/2024

Outfall: 001 - BALCH PASSAGE

Version: 2

Week	Monitoring Point	Total Suspended Solids (TSS) (mg/L) (1825)				Total Phosphorus (TP) (mg/L) (1831)				Total Nitrogen (TN) (mg/L) (1832)				Dissolved Oxygen (DO) (mg/L) (1890)				Water Temperature (WT) (°C) (1891)			
		IN1	IN1	IN1	IN1	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	
1-F	3/1/24					0.0729										7.1	<2.0	M			
1-Sa	3/2/24					0.0587										7.2		M			
2-Su	3/3/24					0.0488										7.2		M			
2-M	3/4/24	67.5	25.1	80.4	29.8	0.0445	<3.0	1.1	95.6	12.8	4.8	84.0	7.2					M			
2-T	3/5/24					0.0374							7.0	<2.0				M			
2-W	3/6/24	70.5	18.3	84.2	21.8	0.0311	<3.0	0.8	95.7	5.6	1.5	93.3	6.8					M			
2-Th	3/7/24					0.0276							7.1	<2.0				M			
2-F	3/8/24					0.0286							6.8					M			
2-Sa	3/9/24					0.0317							6.8					M			
3-Su	3/10/24					0.0345							6.8					M			
3-M	3/11/24	399	143.4	1110	399	0.0431	4.0	1.4	99.0	6.6	2.4	99.4	6.8					M			
3-T	3/12/24					0.0500							6.9	<2.0				M			
3-W	3/13/24	376	111.9	486	144.7	0.0357	<3.0	0.9	99.2	27.1	8.1	94.4	7.2	17				M			
3-Th	3/14/24					0.0324							7.2					M			
3-F	3/15/24					0.0295							7.1					M			
3-Sa	3/16/24					0.0331							7.3					M			
4-Su	3/17/24					0.0302							7.3					M			
4-M	3/18/24	423	105.8	1000	250	0.0300	<3.0	0.8	99.3	5.1	1.3	99.4	7.1					M			
4-T	3/19/24					0.0311							7.1	<2.0				M			
4-W	3/20/24	135	41.2	127	38.8	0.0366	22.8	7	83	29.0	8.8	77	7.1					M			
4-Th	3/21/24					0.0483							7.2	<2.0				M			
4-F	3/22/24					0.0514							6.8					M			
4-Sa	3/23/24					0.0302							6.8					M			
5-Su	3/24/24					0.0293							6.9					M			
5-M	3/25/24	660	156.3	1320	312.6	0.0284	<3.0	0.7	99.3	6.4	2	99.5	7.1					M			
5-T	3/26/24					0.064							7.0					M			
5-W	3/27/24	266	78.3	134	43.6	0.0390	<3.0	0.88	98.9	16.2	5.3	87.9	7.1	<2.0				M			
5-Th	3/28/24					0.0353							7.0	8				M			
5-F	3/29/24					0.0325							6.9					M			
5-Sa	3/30/24					0.0359							7.1					M			
6-Su	3/31/24					0.0308							7.0					M			



Daily Minimum												6.8		
												>= 6.0 (RO)		
Average	299.6	85	542	155	0.037	5.6	1.61	96.3	13.6	4.3	160.3			
	Report Only	DL: 1350	Report Only	DL: 1200	DL: 0.45	<= 30	<= 113	>= 85	<= 30	<= 113	>= 85			
Weekly Average						15.5	3.9		17.1	5.25				
						<= 45	<= 169		<= 45	<= 169				
Maximum	660	156.3	1320	399	0.0729									
	Report Only	Report Only	Report Only	Report Only	Report Only									
Daily Maximum												7.3		M
												<= 9.0 (RO)		<= 0.75 (RO)
Monthly geometric mean													2.96	
													<= 200	
Weekly Geometric Mean													5.83	
													<= 400	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5/9/2024 2:33:24 PM

Matthew Muth

Signature

Date



Permit Number: WA0040002

Permittee: McNeil Island Special Commitment Center WWTP

Facility County: Pierce

Receiving Waterbody: Balch And Cormorant Passages

Monitoring Period: 04/01/2024 - 04/30/2024

Outfall: 001 - BALCH PASSAGE

Version: 2

Week	Monitoring Point	IN1				001				001				001			
		IN1	IN1	IN1	IN1	001	001	001	001	001	001	001	001	001	001		
1-M	4/1/24					0.0308							6.85				
1-T	4/2/24	335	69.29	388.00	80.25	0.0248	< 3.0	0.62	99.104	4.2	0.87	98.918	6.37	< 2			
1-W	4/3/24					0.0242							6.87				
1-Th	4/4/24	104	19.86	95.30	18.20	0.0229	< 3.0	0.57	97.115	16.4	3.13	82.791	6.93	< 2			
1-F	4/5/24					0.0248							6.88				
1-Sa	4/6/24					0.0230							6.99				
2-Su	4/7/24					0.0239							6.89				
2-M	4/8/24					0.0270							6.78				
2-T	4/9/24	3150	969.40	2360.00	726.28	0.0369	< 3.0	0.92	99.905	16.2	4.99	99.314	6.84	< 2			
2-W	4/10/24					0.0299							6.88				
2-Th	4/11/24					0.0273							6.90				
2-F	4/12/24	232	53.60	250.00	57.75	0.0277	3.40	0.79	98.534	17.8	4.11	92.880	6.90	2			
2-Sa	4/13/24					0.0272							6.84				
3-Su	4/14/24					0.0266							6.90				
3-M	4/15/24					0.0237							6.90				
3-T	4/16/24	154	31.60	213.00	43.70	0.0246	< 3.0	0.62	98.052	5.8	1.19	97.277	6.95	< 2			
3-W	4/17/24					0.0257							7.11				
3-Th	4/18/24	87.8	18.60	69.80	14.79	0.0254	< 3.0	0.64	96.583	11.5	2.44	83.524	7.11	< 2			
3-F	4/19/24					0.0314							6.95				
3-Sa	4/20/24					0.0283							7.11				
4-Su	4/21/24					0.0288							7.08				
4-M	4/22/24	570	115.04	1420.00	286.60	0.0242	3.70	0.75	99.351	11.8	2.38	99.169	7.05	2			
4-T	4/23/24					0.0202							7.00				
4-W	4/24/24	217	40.18	157.00	29.07	0.0222	<3.0	0.56	98.618	13.9	2.57	91.146	6.85	< 2			
4-Th	4/25/24					0.0261							6.83				
4-F	4/26/24					0.0510							6.86				
4-Sa	4/27/24					0.0324							6.90				
5-Su	4/28/24					0.0266							6.98				
5-M	4/29/24	184	47.26	108.00	27.74	0.0308	<3.0	0.77	98.370	4.8	1.23	95.556	6.99	4			
5-T	4/30/24					0.0294							6.88		M		



Daily Minimum												6.37		
												>= 6.0 (RO)		
Average	559.3	44.03	562.3	41.63	0.0276	3.6	0.21	98.404	11.4	0.74	93.397			
	Report Only	DL: 1350	Report Only	DL: 1200	DL: 0.45	<= 30	<= 113	>= 85	<= 30	<= 113	>= 85			
Weekly Average						6.275	1.37		24.4	5.42				
						<= 45	<= 169		<= 45	<= 169				
Maximum	3150.0	969.40	2360.0	726.28	0.0510									
	Report Only	Report Only	Report Only	Report Only	Report Only									
Daily Maximum												7.11		M
												<= 9.0 (RO)		<= 0.75 (RO)
Monthly geometric mean													2	
													<= 200	
Weekly Geometric Mean													4	
													<= 400	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5/29/2024 2:02:49 PM

Matthew Muth

Signature

Date



Permit Number: WA0040002

Permittee: McNeil Island Special Commitment Center WWTP

Facility County: Pierce

Receiving Waterbody: Balch And Cormorant Passages

Monitoring Period: 05/01/2024 - 05/31/2024

Outfall: 001 - BALCH PASSAGE

Version: 2

Week	Monitoring Point	Total Suspended Solids (TSS) (mg/L) (1825)				Total Dissolved Solids (TDS) (mg/L) (1825)				Total Phosphorus (TP) (mg/L) (1825)				Total Nitrogen (TN) (mg/L) (1825)			
		IN1	IN1	IN1	IN1	001	001	001	001	001	001	001	001	001	001	001	
1-W	5/1/24	366	70.82	1000	193.49	0.0232	<3.0	0.58	99.180	10.3	1.99	98.970	6.91	<2.0			
1-Th	5/2/24					0.0242							6.87				
1-F	5/3/24					0.0228							7.06				
1-Sa	5/4/24					0.0449							6.92				
2-Su	5/5/24					0.0319							6.92				
2-M	5/6/24	1680	452.56	1480	398.69	0.0323	3.40	0.92	99.798	7.3	1.97	99.507	6.97	<2.0			
2-T	5/7/24					0.0246							6.96				
2-W	5/8/24	141	15.76	260	29.06	0.0134	<3.0	0.34	97.872	3.8	0.42	98.538	6.92	<2.0			
2-Th	5/9/24					0.0244							6.76				
2-F	5/10/24					0.0269							6.75				
2-Sa	5/11/24					0.0266							7.00				
3-Su	5/12/24					0.0229							6.99				
3-M	5/13/24	236	49.01	133	27.62	0.0249	3.60	0.75	98.475	8.7	1.81	93.459	7.01	2			
3-T	5/14/24					0.0224							6.78				
3-W	5/15/24	322	55.59	323	55.76	0.0207	4.10	0.71	98.727	10.4	1.80	96.780	6.87	<2.0			
3-Th	5/16/24					0.0201							6.70				
3-F	5/17/24					0.0221							6.84				
3-Sa	5/18/24					0.0278							6.94				
4-Su	5/19/24	960	156.12	1800	292.73	0.0195	<3.0	0.49	99.688	1.3	0.21	99.928	7.01	<2.0			
4-M	5/20/24					0.0193							6.95				
4-T	5/21/24					0.0269							6.99				
4-W	5/22/24	326	59.81	258	47.34	0.0220	4.90	0.90	98.497	6.8	1.25	97.364	6.93	<2.0			
4-Th	5/23/24					0.0217							6.95				
4-F	5/24/24					0.0237							6.76				
4-Sa	5/25/24					0.0288							6.95				
5-Su	5/26/24					0.0246							6.96				
5-M	5/27/24	620	109.10	1510	265.72	0.0211	<3.0	0.53	99.516	3	0.53	99.801	6.97	2			
5-T	5/28/24					0.0247							6.97				
5-W	5/29/24	317	63.72	1820	365.81	0.0241	<3.0	0.60	99.054	1.6	0.32	99.912	7.01	<2.0			
5-Th	5/30/24					0.0244							7.02				
5-F	5/31/24					0.0251							6.97		M		



Daily Minimum												6.70		
												>= 6.0 (RO)		
Average	552.0	114.72	953.8	186.25	0.0246	4.0	0.64	98.978	5.9	1.14	98.251			
	Report Only	DL: 1350	Report Only	DL: 1200	DL: 0.45	<= 30	<= 113	>= 85	<= 30	<= 113	>= 85			
Weekly Average						3.4	0.64		10.64	1.23				
						<= 45	<= 169		<= 45	<= 169				
Maximum	1680.0	452.56	1820.0	398.69	0.0449									
	Report Only	Report Only	Report Only	Report Only	Report Only									
Daily Maximum												7.06		M
												<= 9.0 (RO)		<= 0.75 (RO)
Monthly geometric mean													2	
													<= 200	
Weekly Geometric Mean													2	
													<= 400	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

7/10/2024 7:42:13 AM

Matthew Muth

Signature

Date



Permit Number: WA0040002

Permittee: McNeil Island Special Commitment Center WWTP

Facility County: Pierce

Receiving Waterbody: Balch And Cormorant Passages

Monitoring Period: 06/01/2024 - 06/30/2024

Outfall: 001 - BALCH PASSAGE

Version: 2

Week	Monitoring Point	Total Dissolved Solids (TDS) (mg/L) (191)				Total Suspended Solids (TSS) (mg/L) (191)				Total Phosphorus (TP) (mg/L) (191)				Total Nitrogen (TN) (mg/L) (191)			
		IN1	IN1	IN1	IN1	001	001	001	001	001	001	001	001	001	001	001	
1-Sa	6/1/24					0.0302							7.03				
2-Su	6/2/24					0.0664							6.92				
2-M	6/3/24	313	97.63	1200	374.30	0.0374	4.20	1.31	98.658	6	1.87	99.500	6.97	<2			
2-T	6/4/24					0.0269							6.99				
2-W	6/5/24	680	125.90	1860	344.38	0.0222	<3.0	0.56	99.559	4.7	0.87	99.747	7.13	<2			
2-Th	6/6/24					0.0234							7.03				
2-F	6/7/24					0.0214							6.91				
2-Sa	6/8/24					0.0221							7.06				
3-Su	6/9/24					0.0239							7.04				
3-M	6/10/24	116	19.06	180	29.57	0.0197	<3.0	0.49	97.414	5	0.82	97.222	6.99	<2			
3-T	6/11/24					0.0224							6.91				
3-W	6/12/24	178	31.03	191	33.29	0.0209	<3.0	0.52	98.315	1	0.17	99.476	6.97	<2			
3-Th	6/13/24					0.0234							6.88				
3-F	6/14/24					0.0234							6.80				
3-Sa	6/15/24					0.0257							6.93				
4-Su	6/16/24					0.0210							6.79				
4-M	6/17/24	246	44.32	166	29.90	0.0216	4.60	0.83	98.130	3.6	0.65	97.831	6.90	<2			
4-T	6/18/24					0.0212							6.82				
4-W	6/19/24	99.5	16.68	130	21.79	0.0201	<3.0	0.50		6.3	1.06	95.154	6.68	4			
4-Th	6/20/24					0.0217							6.87				
4-F	6/21/24					0.0199							6.80				
4-Sa	6/22/24					0.0216							6.82				
5-Su	6/23/24					0.0960							6.77				
5-M	6/24/24	210	217.87	169	175.34	0.1244	4.50	4.67	97.857	4.2	4.36	97.515	7.16	<2			
5-T	6/25/24	233	242.90	231	240.82	0.1250	4.10	4.27	98.240	7.2	7.51	96.883	7.34	<2			
5-W	6/26/24					0.1286							7.31				
5-Th	6/27/24					0.0939							7.60				
5-F	6/28/24					0.1203							7.41				
5-Sa	6/29/24					0.1119							7.48				
6-Su	6/30/24					0.1282							7.50		M		



Daily Minimum												6.68		
												>= 6.0 (RO)		
Average	259.4	25.66	515.9	40.30	0.0495	4.40	0.42	98.310	4.8	.56	97.916			
	Report Only	DL: 1350	Report Only	DL: 1200	DL: 0.45	<= 30	<= 113	>= 85	<= 30	<= 113	>= 85			
Weekly Average						3.68	1.64		4.75	2.17				
						<= 45	<= 169		<= 45	<= 169				
Maximum	680.0	242.90	1860.0	374.30	0.1286									
	Report Only	Report Only	Report Only	Report Only	Report Only									
Daily Maximum												7.60		M
												<= 9.0 (RO)		<= 0.75 (RO)
Monthly geometric mean													2.18	
													<= 200	
Weekly Geometric Mean													2.21	
													<= 400	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

7/23/2024 10:55:10 AM

Matthew Muth

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



## 2022-2024 High Influent Events (over 90k GPD)

### Influent Flow ( in GPD)

1/2/2022	163,900	5/11/2022	102,700
1/3/2022	122,000	5/12/2022	94,800
1/5/2022	135,400	5/13/2022	94,200
1/6/2022	351,300	5/14/2022	92,400
1/7/2022	136,600	5/15/2022	123,900
1/11/2022	192,200	5/16/2022	90,400
1/12/2022	136,300	5/18/2022	94,100
1/25/2022	110,900	5/19/2022	91,700
1/26/2022	174,800	5/26/2022	99,300
1/27/2022	134,000	5/27/2022	101,200
2/27/2022	127,500	5/28/2022	111,100
2/28/2022	317,900	11/29/2022	93,300
3/1/2022	106,600	12/4/2023	163,900
4/23/2022	96,800	12/5/2023	310,600
4/24/2022	103,600	1/18/2024	130,900
4/25/2022	94,500	1/19/2024	98,100
4/29/2022	113,200	1/20/2024	99,400
4/30/2022	121,400	1/21/2024	138,400
5/1/2022	114,100	1/22/2024	105,000
5/2/2022	113,300	1/27/2024	90,900
5/3/2022	106,300	6/24/2024	107,100
5/4/2022	106,300	6/25/2024	106,200
5/5/2022	130,700	6/26/2024	110,100
5/6/2022	174,200	6/27/2024	110,300
5/7/2022	126,200	6/28/2024	111,200
5/8/2022	109,900	6/29/2024	110,900
5/9/2022	109,500	6/30/2024	112,800
5/10/2022	95,000		

Days over 90K GPD: 55

Days over 125K GPD: 13

Days over 190k GPD: 4

PLANT: MI WWTP

DATE: Aug. 2019

TOTAL AND VOLATILE SOLIDS

DATE OF SAMPLE:	8/2/19	8/2/19	08/05/19	08/06/19	8/7/19	08/08/19
DATE OF TESTING	8/2/19	8/2/19	08/05/19	08/06/19	8/7/19	08/08/19
SAMPLE IDENTITY:	Lined	Lined	Lime	Lime	Lime	Lime
DISH #	13	13	13	13	13	13
A. SAMPLE VOLUME G	10	10	10	10	10	10
B. DISH + WET SOLIDS G	11.1525	11.4518	11.9587	11.8106	11.6581	11.7949
C. DISH + DRY SOLIDS G	1.5762	1.6182	1.6807	1.6578	1.6458	1.6766
D. DISH + ASH SOLIDS G	1.4412	1.4698	1.5112	1.5004	1.5144	1.5200
E. TARE OF DISH G	1.3720	1.3762	1.3982	1.4044	1.4134	1.4375
F. NET WET SOLIDS G	9.7805	10.0756	10.5605	10.4062	10.2447	10.3574
G. NET DRY SOLIDS G	.2042	.2420	0.2825	0.2534	0.2324	0.2391
H. NET ASH SOLIDS G	.0892	.0936	0.113	0.0962	.1010	0.0825
I. NET VOLATILE SOLIDS G	.1350	.1484	0.1695	0.1572	.1314	0.1566
TOT SOLIDS (G/A) x 10 <sup>6</sup> = mg/L	20420	24200	28250	12670	23240	23910
TOT SOLIDS % = (G/F) x 100 = %	2.1%	2.4%	2.7%	2.4%	2.3%	2.3%
VOL SOLIDS (I/A) x 10 <sup>6</sup> = mg/L	13500	14840	16950	<del>12670</del> <sup>LAC 15720</sup>	13140	15660
VOL SOLIDS % = (I/G) x 100 = %	66%	61%	60%	62%	57%	65%
TIME IN :	11:10	1:45				
ANALYSIS PERFORMED BY :	HR	HR	LAC	LAC	HR	LAC
Batch #	947	948	949	950	951	952
Date Hauled:	<del>08/02/19</del> <sup>LAC</sup>	08/05/19	08/06/19	8/7/19	08/08/19	08/09/19



PLANT: MI WWTP

DATE: Aug. 2019

TOTAL AND VOLATILE SOLIDS

DATE OF SAMPLE:	08/13/19	08/14/19	08/15/19	8/16/19	8/17/19	08/19/19
DATE OF TESTING	08/13/19	08/14/19	08/15/19	8/16/19	8/17/19	08/19/19
SAMPLE IDENTITY:	lime	lime	lime	Limed	Limed	Limed
DISH #	13	13	13	13	13	13
A. SAMPLE VOLUME G	10	10	10	10	10	10
B. DISH + WET SOLIDS G	11.6974	11.9586	11.8133	11.7108	11.9496	11.7432
C. DISH + DRY SOLIDS G	1.4607	1.7089	1.7111	1.6983	1.7579	1.7728
D. DISH + ASH SOLIDS G	1.5148	1.5588	1.5763	1.5569	1.6318	1.6358
E. TARE OF DISH G	1.4474	1.4517	1.4679	1.5018	1.5014	1.5421
F. NET WET SOLIDS G	10.25	10.5069	10.3454	10.2090	10.1917	10.2011
G. NET DRY SOLIDS G	0.2133	0.2572	0.2432	.1965	.2565	0.2307
H. NET ASH SOLIDS G	0.0674	0.1071	0.1084	.0551	.1304	0.0907
I. NET VOLATILE SOLIDS G	0.1459	0.1501	0.1348	.1414	.1261	0.14
TOT SOLIDS (G/A) x 10 <sup>6</sup> = mg/L	21330	25720	24320	19650	25650	23070
TOT SOLIDS % = (G/F) x 100 = %	2.1%	2.4%	2.4%	1.9%	2.5%	2.3%
VOL SOLIDS (I/A) x 10 <sup>6</sup> = mg/L	14590	15010	13480	14140	12610	14000
VOL SOLIDS % = (I/G) x 100 = %	68%	58%	55%	72%	49%	61%
TIME IN :						
ANALYSIS PERFORMED BY :	LAC			HR	MK	
Batch #	953	954	955	956	957	958
Date Hauled:						



PLANT: MI WWTP

DATE: Aug. 2019

TOTAL AND VOLATILE SOLIDS

DATE OF SAMPLE:		08/21/19	8/22/19	8/23/19	8/24/19	08/26/19	08/27/19
DATE OF TESTING		08/21/19	8/22/19	8/23/19	8/24/19	08/26/19	08/27/19
SAMPLE IDENTITY:		Limed	Limed	Lime	Limed	Limed	limed
DISH #		13	13	13	13	12	12
A. SAMPLE VOLUME	G	10	10	10	10	10	10
B. DISH + WET SOLIDS	G	11.9592	11.5142	11.9181	11.9623	12.4713	12.1592
C. DISH + DRY SOLIDS	G	1.7572	1.7321	1.7413	1.7780	1.7420	1.7538
D. DISH + ASH SOLIDS	G	1.6108	1.6060	1.6065	1.6667	1.5955	1.6105
E. TARE OF DISH	G	1.5405	1.5481	1.5627	1.5643	1.5195	1.5322
F. NET WET SOLIDS	G	10.4187	9.9661	10.3554	10.398	10.9518	10.627
G. NET DRY SOLIDS	G	0.2168	.1840	.1786	.2137	0.2225	0.2216
H. NET ASH SOLIDS	G	0.0703	.0579	.0438	.1024	0.076	0.0783
I. NET VOLATILE SOLIDS	G	0.1465	.1261	.1348	.1113	0.1465	0.1433
TOT SOLIDS (G/A) x 10 <sup>6</sup> = mg/L		21680	18400	17860	21370	22250	22160
TOT SOLIDS % = (G/F) x 100 = %		2.1%	1.9%	1.7%	2.1%	2.0%	2.1%
VOL SOLIDS (I/A) x 10 <sup>6</sup> = mg/L		14650	12610	13480	11130	14650	14330
VOL SOLIDS % = (I/G) x 100 = %		68%	69%	75%	52%	66%	65%
TIME IN :							
ANALYSIS PERFORMED BY :			HW	HW			
Batch #	2.	959	960	961	962	963	964



PLANT: MI WWTP

DATE: Aug. 2019

TOTAL AND VOLATILE SOLIDS

DATE OF SAMPLE:	08/28/19	08/29/19	8/30/19	8/31/19	09/03/19	09/04/19
DATE OF TESTING	08/28/19	08/29/19	8/30/19	8/31/19	09/03/19	09/04/19
SAMPLE IDENTITY:	limed	limed	Limed	Limed (Frosted)	Limed	limed
DISH #	12	12	12	12	12	12
A. SAMPLE VOLUME G	10	10	10	10	10	10
B. DISH + WET SOLIDS G	12.0207	12.0298	11.9285	11.5830	11.7597	11.7949
C. DISH + DRY SOLIDS G	1.7690	1.7561	1.7795	1.7901	1.4862	1.4870
D. DISH + ASH SOLIDS G	1.6200	1.6147	1.6381	1.6687	1.3669	1.3733
E. TARE OF DISH G	1.5490	1.5616	1.5812	1.5959	1.2802	1.2793
F. NET WET SOLIDS G	10.4717	10.4682	10.3473	9.9871	10.4795	10.5156
G. NET DRY SOLIDS G	0.22	.1945	.1983	.1942	0.206	0.2077
H. NET ASH SOLIDS G	0.071	.0531	.0569	.0728	0.0867	0.094
I. NET VOLATILE SOLIDS G	0.149	.1414	.1414	.1214	0.1193	0.1137
TOT SOLIDS (G/A) x 10 <sup>6</sup> = mg/L	22000	19450	19730	19420	20600	20770
TOT SOLIDS % = (G/F) x 100 = %	2.1%	1.9%	1.9%	1.9%	2.0%	2.0%
VOL SOLIDS (I/A) x 10 <sup>6</sup> = mg/L	14900	14140	14140	12140	11930	11370
VOL SOLIDS % = (I/G) x 100 = %	68%	73%	73%	63%	58%	55%
TIME IN :						
ANALYSIS PERFORMED BY :		HM		MK		
Batch # →	965	966	967	968	969	970







PLANT: MI WWTP

DATE: Sep 2019

TOTAL AND VOLATILE SOLIDS

DATE OF SAMPLE:	09/11/19	09/12/19	09/16/19	09/17/19	09/18/19	09/19/19
DATE OF TESTING	09/11/19	09/12/19	09/16/19	09/17/19	09/18/19	09/19/19
SAMPLE IDENTITY:	Lined	Lined	Lined	Lined	Lined	Lined
DISH #	13	13	13	13	13	13
A. SAMPLE VOLUME G	10	10	10	10	10	10
B. DISH + WET SOLIDS G	11.4527	<del>11.8270</del> 11.9256	11.7524	12.0172	12.0275	11.9752
C. DISH + DRY SOLIDS G	1.5962	1.6201	1.6226	1.6327	1.6357	1.6309
D. DISH + ASH SOLIDS G	1.4812	1.5095	1.5008	<del>1.5223</del> 1.5222	1.5322	1.5288
E. TARE OF DISH G	1.4059	1.4247	1.4519	1.4534	1.4646	1.4883
F. NET WET SOLIDS G	10.2468	10.4023	10.3005	10.5636	11.5629	10.4869
G. NET DRY SOLIDS G	0.1903	0.1954	0.1707	0.1791	0.1711	0.1426
H. NET ASH SOLIDS G	0.0753	0.0848	0.0489	<del>0.0623</del> 0.0607	0.0676	0.0405
I. NET VOLATILE SOLIDS G	0.115	0.1106	0.1218	0.1104	0.1035	0.1021
TOT SOLIDS (G/A) x 10 <sup>6</sup> = mg/L	19030	19540	17070	17910	17110	14260
TOT SOLIDS % = (G/F) x 100 = %	1.9%	1.9%	1.7%	1.7%	1.5%	1.4%
VOL SOLIDS (I/A) x 10 <sup>6</sup> = mg/L	11500	11060	12180	11040	10350	10210
VOL SOLIDS % = (I/G) x 100 = %	60%	57%	71%	62%	60%	72%
TIME IN :						
ANALYSIS PERFORMED BY :						
Batch #	977	978	979	980	981	982



1515 80th St. E.  
Tacoma, WA 98404  
(253) 531-3121

December 28, 2019

Department of Corrections  
McNeil Island Stewardship  
PO Box 881460  
Steilacoom, WA 98388  
Attn: Mark Horton

Dear Sir:

Results of analysis of one wastesolids sample taken by you on 12-19-19 at 12:05 p.m. and received on 12-19-19 at 2:20 p.m. are as follows:

**Permit #: WA-0040002**

**Sample Identification: Limed Biosolids**

**Tests**

**Results**

Fecal Coliform (per dry gram)

< 1.1\*

*Salmonella* (per 4 dry grams)

< 1.4\*

\* < is less than

Lab Number: 08945012

Sample was analyzed according to Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition and EPA Method 1682: *Salmonella* in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vassilidis (MSRV) Medium.

Chain of custody record is enclosed. Chemistry results will follow.

Sincerely,

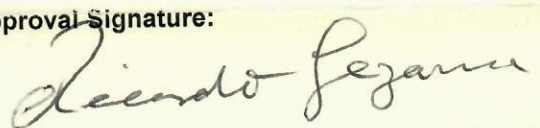
A handwritten signature in cursive script, appearing to read "Diane DuMond".

Diane DuMond  
Microbiologist

DD:ami  
Enclosure



## Chemistry - Report of Analysis

<b>Lab Number / Sample Number:</b> 089 / 11843  <b>Project Name:</b>  <b>Permit #:</b> WA 0040002	<b>Date Collected:</b> 12-09-2019  <b>Time Collected:</b> 12:05 PM
<b>Sample Matrix:</b> Wastewater <b>Sample Identification:</b> Limed Biosolids	<b>Sample Collected:</b> Mark Horton  <b>Contact Number:</b> 253-588-5281
<b>Date Received:</b> 12-09-2019 <b>Time Received:</b> 1:30 PM <b>Date Reported:</b> 01-15-2020	<b>Approval Signature:</b> 
<b>Send Report &amp; Bill to:</b> Dept of Corrections - MIS PO Box 881460 Steilacoom, WA 98388	<b>Comments:</b>

### ANALYTICAL RESULTS

ANALYTE	RESULT	UNITS	REPORTING LEVEL	METHOD	DATE ANALYZED	INITIALS
Arsenic	1.89	mg/kg dry	--	200.8	12-17-2019	JMB
Cadmium	0.67	mg/kg dry	--	200.8	12-17-2019	JMB
Mercury	0.72	mg/kg dry	--	200.8	12-17-2019	JMB
Selenium	2.22	mg/kg dry	--	200.8	12-17-2020	JMB
Nickel	10.2	mg/kg dry	--	200.8	12-17-2019	JMB
Zinc	639	mg/kg dry	--	200.8	12-17-2019	JMB
Lead	20.0	mg/kg dry	--	200.8	12-17-2019	JMB
Copper	672	mg/kg dry	--	200.8	12-31-2019	JMB
Molybdenum	0.83	mg/kg dry	--	200.8	12-17-2019	JMB
Potassium	1010	mg/kg dry	--	200.8	12-17-2019	JMB
Ammonia Nitrogen	2030	mg/kg dry	--	4500NH3C	12-12-2019	CK
Total Kjeldahl Nitrogen	26800	mg/kg dry	--	4500NorgB	01-02-2020	CK
pH	11.8	units	--	4500-H+B	12-12-2019	CK
Total Phosphorus	2030	mg/kg dry	--	4500-P B,E	01-03-2020	CK
Total Solids	1.80	percent	--	2540G	12-10-2019	CK
Nitrate - N	2280	mg/kg dry	--	300.0	12-09-2019	CK

# Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com  
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

## Login Report

**Customer Name:** WATER MANAGEMENT LABORATORIES, INC  
1515 80TH STREET EAST  
TACOMA WA 98404

**Order ID:** 191211039  
**Order Date:** 12/11/2019

**Contact Name:** CHRISTA GARRETTSON

**Project Name:** 08992746

**Comment:**

---

**Sample #:** 191211039-001 **Customer Sample #:** 08992746

**Recv'd:**  **Matrix:** Water **Collector:** **Date Collected:** 12/9/2019  
**Quantity:** 1 **Date Received:** 12/11/2019 10:47:00 AM **Time Collected:** 12:05 PM  
**Comment:**

Test	Lab	Method	Due Date	Priority
PCB 8082	M	EPA 8082	12/23/2019	<u>Normal (~10 Days)</u>

---

**Sample #:** 191211039-002 **Customer Sample #:** FIELD BLANK

**Recv'd:**  **Matrix:** Water **Collector:** **Date Collected:** 12/9/2019  
**Quantity:** 1 **Date Received:** 12/11/2019 10:47:00 AM **Time Collected:** 12:05 PM  
**Comment:**

Test	Lab	Method	Due Date	Priority
PCB 8082	M	EPA 8082	12/16/2019	<u>Normal (~10 Days)</u>

## SAMPLE CONDITION RECORD

---

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	3.0
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes
Total number of containers?	2



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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

**Client:** WATER MANAGEMENT LABORATORIES, INC      **Batch #:** 191211039  
**Address:** 1515 80TH STREET EAST      **Project Name:** 08992746  
TACOMA, WA 98404  
**Attn:** CHRISTA GARRETTSON

## Analytical Results Report

---

<b>Sample Number</b>	191211039-001	<b>Sampling Date</b>	12/9/2019	<b>Date/Time Received</b>	12/11/20110:47 AM
<b>Client Sample ID</b>	08992746	<b>Sampling Time</b>	12:05 PM	<b>Extraction Date</b>	12/17/2019
<b>Matrix</b>	Water				

**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.8	1/3/2020 5:26:00 PM	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.8	1/3/2020 5:26:00 PM	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.8	1/3/2020 5:26:00 PM	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.8	1/3/2020 5:26:00 PM	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.8	1/3/2020 5:26:00 PM	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.8	1/3/2020 5:26:00 PM	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.8	1/3/2020 5:26:00 PM	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.8	1/3/2020 5:26:00 PM	MAH	EPA 8082	

## Surrogate Data

---

<b>Sample Number</b>	191211039-001	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>		EPA 8082	86.0	30-130
DCB				

---

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**Client:** WATER MANAGEMENT LABORATORIES, INC      **Batch #:** 191211039  
**Address:** 1515 80TH STREET EAST      **Project Name:** 08992746  
TACOMA, WA 98404  
**Attn:** CHRISTA GARRETTSON

## Analytical Results Report

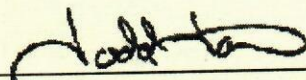
<b>Sample Number</b>	191211039-002	<b>Sampling Date</b>	12/9/2019	<b>Date/Time Received</b>	12/11/2019 10:47 AM
<b>Client Sample ID</b>	FIELD BLANK	<b>Sampling Time</b>	12:05 PM	<b>Extraction Date</b>	12/17/2019
<b>Matrix</b>	Water				
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	1/3/2020 5:45:00 PM	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	1/3/2020 5:45:00 PM	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	1/3/2020 5:45:00 PM	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	1/3/2020 5:45:00 PM	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	1/3/2020 5:45:00 PM	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	1/3/2020 5:45:00 PM	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	1/3/2020 5:45:00 PM	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.2	1/3/2020 5:45:00 PM	MAH	EPA 8082	

## Surrogate Data

<b>Sample Number</b>	191211039-002	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>		EPA 8082	91.2	30-130
DCB				

Authorized Signature

  
Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level  
ND Not Detected  
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.  
The results reported relate only to the samples indicated.  
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595  
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

**Site Specific Land Application Plan**  
**Washington State Department of Corrections**  
**McNeil Island Wastewater Treatment Plant**

**Site “A”**  
**(Nov 2015)**

Site “A” encompasses 56.5 acres of agricultural grassland. The general types of soil found on the site consist of Bellingham silty loam and Kapowsin gravelly sandy loam. The steepest slope on the site is approximately 2%, indicating a relatively flat topography.

The Washington State Department of Corrections (DOC) completed an environmental checklist for compliance with the State Environmental Policy Act (SEPA). A Determination of Non-Significance was issued on August 18, 1992. The Tacoma-Pierce County Health Department (T-PCHD) had issued a solid waste permit annually to DOC for the application of biosolids to this site since November 12, 1992, until the adoption of Ecology’s Biosolids Management Rule, Chapter 173-308 of the Washington Administrative Code, in 1998. Since that time, utilization of biosolids on this site has continued under provisional approval as allowed under Ecology’s *Biosolids General Permit*.

As described in DOC’s General Land Application Plan, lime stabilized biosolids generated from the McNeil Island Wastewater Treatment Plant and land applied to Site “A” will meet Class B pathogen reduction and vector attraction reduction. Biosolids are held in the 3,500-gallon holding tank for lime stabilization, in order to achieve pathogen reduction and vector reduction requirements. Once time limits are achieved, the lime-stabilized liquid biosolids are loaded directly into the tanker truck and immediately applied to the site. No storage of biosolids at the land application site is necessary.

Domestic livestock (no longer kept on Island 2015) will be restricted from grazing on grass for a minimum of thirty days after biosolids application. Since this application site has a low potential for public exposure due to the remote location and that the site is fenced, public access will be restricted for a minimum of thirty days after the application of biosolids. During the time when access is restricted, signs will be posted around the application site at all significant points of access and otherwise around the perimeter so that they can be noticed and read by a reasonably observant person.

It is unlikely that the pasture grasses will be harvested from this site. However, if in the future it is desired to harvest the pasture grass from this biosolids application site, harvesting will occur a minimum of thirty days after biosolids application.

Site “A” contains no surface waters that require setbacks. Biosolids will not be applied to this site when the water table is within three feet of the surface of the ground. The T-PCHD may allow biosolids application to this site if the water table is a minimum of two feet from the surface of the ground and application is to take place during the time of year with a receding water table (late spring).

Biosolids will not be applied within 200 feet of encumbering water wells.



Because this site is not intensively managed for agricultural production, biosolids will be applied at conservative application rates typically around 1.5 dry tons of biosolids per acre per year. If DOC desires to increase the application rate to this site above 1.5 dry tons per acre per year, approval will be obtained from the T-PCHD prior to such application but will remain at or below the agronomic rate for the crop to be grown.

Biosolids will be applied to this site using a 3,000-gallon tanker truck. Biosolids can be applied by either spraying the biosolids manually or discharging the biosolids from a pressurized discharge while driving on the site. Biosolids are being applied utilizing a fan type gravity sprayer. Biosolids will not be applied to frozen; snow covered, or saturated soils (ponding water).

After reviewing historical biosolids quality, the biosolids sample collected in August 1997 contained 69.5 mg/kg of arsenic. This concentration of arsenic exceeds the "Table 3" pollutant concentration limits for arsenic established at 41 mg/kg, but is below the Table 1 Ceiling Concentration of 75 mg/kg for arsenic. The laboratory results from 2004, lists arsenic levels at 3.14 and 5.21 mg/kg, well below the range experienced in 1997. MICC will continue to monitor its biosolids in order to assess the variation of biosolids quality at different times of the year, once in March and in September. To assure that the biosolids pollutant concentrations remain below the pollutant concentration limits listed in Table 3 of Ecology's Biosolids Management Regulation, WAC 173-308.

Maps are attached, as required by WAC 173-308-310(6), and show the location and means of access to the site: topographic relief of the application site and surrounding area; adjacent properties and uses and their zoning classifications; surface water bodies within ¼ mile of the site; the location of any wells within ¼ mile of the site and the width of buffer zones to wells, property boundaries and other areas requiring buffers.

As determined by the SEPA process, no critical areas or threatened or endangered species or critical habitat have been identified on this site that would prevent biosolids utilization. Therefore, no maps have been provided. Also, after reviewing the Tacoma-Pierce County Health Department records, no well head protection area has been identified on McNeil Island.

**Site Specific Land Application Plan**  
**Washington State Department of Corrections**  
**McNeil Island Wastewater Treatment Plant**

**Site “B”**  
**(Nov 2015)**

Site “B” encompasses 48 acres of agricultural grassland. The general type of soil found on the site consists of Kapowsin gravelly sandy loam. The steepest slope on the site is approximately 7.5%.

The Washington State Department of Corrections (DOC) completed an environmental checklist for compliance with the State Environmental Policy Act (SEPA). A Determination of Non-Significance was issued on August 18, 1992. The Tacoma-Pierce County Health Department (TPCHD) has issued a solid waste permit annually to DOC for the application of biosolids to this site since November 12, 1992, until the adoption of Ecology’s Biosolids Management Rule, Chapter 173-308 of the Washington Administrative Code, in 1998. Since that time, utilization of biosolids on this site has continued under provisional approval as allowed under Ecology’s *Biosolids General Permit*.

As described in DOC’s General Land Application Plan, lime stabilized biosolids generated from the McNeil Island Wastewater Treatment Plant and land applied to Site “B” will meet Class B pathogen reduction and vector attraction reduction. Biosolids are held in the 3,500-gallon holding tank for lime stabilization, in order to achieve pathogen reduction and vector reduction requirements. Once time limits are achieved, the lime-stabilized liquid biosolids are loaded directly into the tanker truck and immediately applied to the site. No storage of biosolids at the land application site is necessary.

Domestic livestock (no longer kept on Island) will be restricted from grazing on grass for a minimum of thirty days after biosolids application. Since this application site has a low potential for public exposure due to the remote location and that the site is fenced, public access will be restricted for a minimum of thirty days after the application of biosolids. During the time when access is restricted, signs will be posted around the application site at all significant points of access and otherwise around the perimeter so that they can be noticed and read by a reasonably observant person.

It is unlikely that the pasture grasses will be harvested from this site. However, the grasses are being cut and left at site. If in the future it is desired to harvest the pasture grass from this biosolids application site, harvesting will occur a minimum of thirty days after biosolids application.

Site “B” contains no surface waters that would require setbacks. The southern boundary of this site is 220 feet from Puget Sound. Biosolids will not be applied to this site when the water table is within three feet of the surface of the ground. The T-PCHD may allow biosolids application to this site if the water table is a minimum of two feet from the surface of the ground and application is to take place during the time of year for a receding water table (late spring).

Biosolids will not be applied within 200 feet of encumbering water wells.

Because this site is not intensively managed for agricultural production, biosolids will be applied at conservative application rates typically around 1.5 dry tons of biosolids per acre per year. If DOC desires to increase the application rate to this site above 1.5 dry tons per acre per year, approval will be obtained from the TPCHD prior to such application but will remain at or below the agronomic rate for the crop to be grown.

Biosolids will be applied to this site using a 3,300-gallon tanker truck. Biosolids can be applied by either spraying the biosolids manually or applied by driving over the site and discharging the biosolids from a pressurized dump valve. Biosolids are being applied utilizing a fan type gravity sprayer. Biosolids will not be applied to frozen, snow covered, or saturated soils (ponding water).

After reviewing historical biosolids quality, the biosolids sample collected in August 1997 contained 69.5 mg/kg of arsenic. This concentration of arsenic exceeds the "Table 3" pollutant concentration limits for arsenic established at 41 mg/kg, but is below the Table 1 Ceiling Concentration of 75 mg/kg for arsenic. The laboratory results from 2004, lists arsenic levels at 3.14 and 5.21 mg/kg, well below the range experienced in 1997. MICC will continue to monitor its biosolids in order to assess the variation of biosolids quality at different times of the year, once in March and in September. To assure that the biosolids pollutant concentrations remain below the pollutant concentration limits listed in "Table 3" of Ecology's Biosolids Management Regulation, WAC 173-308.

As required by WAC 173-308-310(6), maps are attached that show the location and means of access to the site; topographic relief of the application site and surrounding area; adjacent properties and uses and their zoning classifications; surface water bodies within ¼ mile of the site; the location of any wells within ¼ mile of the site; and the width of buffer zones to wells, property boundaries and other areas requiring buffers.

As determined by the SEPA process, no critical areas or threatened or endangered species or critical habitat have been identified on this site that would prevent biosolids utilization. Therefore, no maps have been provided. Also, after reviewing the Tacoma-Pierce County Health Department records, no well head protection area has been identified on McNeil Island.



**Site Specific Land Application Plan**  
**Washington State Department of Corrections**  
**McNeil Island Wastewater Treatment Plant**

**Site “C”**  
**(Nov 2015)**

Site “C” encompasses 29 acres of agricultural grassland. The general type of soil found on the site consists of Alderwood gravelly sandy loam. The steepest slope on the site is approximately 10%.

The Washington State Department of Corrections (DOC) completed an environmental checklist for compliance with the State Environmental Policy Act (SEPA). A Determination of Non-Significance was issued on August 18, 1992. The Tacoma-Pierce County Health Department (TPCHD) has issued a solid waste permit annually to DOC for the application of biosolids to this site since November 12, 1992, until the adoption of Ecology’s Biosolids Management Rule, Chapter 173-308 of the Washington Administrative Code, in 1998. Since that time, utilization of biosolids on this site has continued under provisional approval as allowed under Ecology’s *Biosolids General Permit*.

As described in DOC’s General Land Application Plan, lime stabilized biosolids generated from the McNeil Island Wastewater Treatment Plant and land applied to Site “C” will meet Class B pathogen reduction and vector attraction reduction. Biosolids are held in the 3,500-gallon holding tank for lime stabilization, in order to achieve pathogen reduction and vector reduction requirements. Once time limits are achieved, the lime-stabilized liquid biosolids are loaded directly into the tanker truck and immediately applied to the site. No storage of biosolids at the land application site is necessary.

Domestic livestock (no longer kept on Island) will be restricted from grazing on grass for a minimum of thirty days after biosolids application. Since this application site has a low potential for public exposure due to the remote location and that the site is fenced, public access will be restricted for a minimum of thirty days after the application of biosolids. During the time when access is restricted, signs will be posted around the application site at all significant points of access and otherwise around the perimeter so that they can be noticed and read by a reasonably observant person.

It is unlikely that the pasture grasses will be harvested from this site. However, if in the future it is desired to harvest the pasture grass from this biosolids application site, harvesting will occur a minimum of thirty days after biosolids application.

Site “C” contains no surface waters that would require setbacks. Biosolids will not be applied to this site when the water table is within three feet of the surface of the ground. The TPCHD may allow biosolids application to this site if the water table is a minimum of two feet from the surface of the ground and application is to take place during the time of year for a receding water table (that is, late spring).

Biosolids will not be applied within 200 feet of encumbering water wells.

Because this site is not intensively managed for agricultural production, biosolids will be applied at conservative application rates typically around 1.5 dry tons of biosolids per acre per year. If DOC desires to increase the application rate to this site above 1.5 dry tons per acre per year, approval will be obtained from the TPCHD prior to such application but will remain at or below the agronomic rate for the crop to be grown.

Biosolids will be applied to this site using a 3,300-gallon tanker truck. Biosolids can be applied by either spraying the biosolids manually or applied by driving over the site and discharging the biosolids from a pressurized dump valve. Biosolids are being applied utilizing a fan type gravity sprayer. Biosolids will not be applied to frozen, snow covered, or saturated soils (ponding water).

After reviewing historical biosolids quality, the biosolids sample collected in August 1997 contained 69.5 mg/kg of arsenic. This concentration of arsenic exceeds the "Table 3" pollutant concentration limits for arsenic established at 41 mg/kg, but is below the Table 1 Ceiling Concentration of 75 mg/kg for arsenic. The laboratory results from 2004, lists arsenic levels at 3.14 and 5.21 mg/kg, well below the range experienced in 1997. MICC will continue to monitor its biosolids in order to assess the variation of biosolids quality at different times of the year, once in March and in September. To assure that the biosolids pollutant concentrations remain below the pollutant concentration limits listed in Table 3 of Ecology's Biosolids Management Regulation, WAC 173-308.

As required by WAC 173-308-310(6), maps are attached that show the location and means of access to the site: topographic relief of the application site and surrounding area: adjacent properties and uses and their zoning classifications: surface water bodies within ¼ mile of the site: the location of any wells within ¼ mile of the site: and the width of buffer zones to wells, property boundaries and other areas requiring buffers.

As determined by the SEPA process, no critical areas or threatened or endangered species or critical habitat have been identified on this site that would prevent biosolids utilization. Therefore, no maps have been provided. Also, after reviewing the Tacoma-Pierce County Health Department records, no well head protection area has been identified on McNeil Island.

**Site Specific Land Application Plan**  
**Washington State Department of Corrections**  
**McNeil Island Wastewater Treatment Plant**

**Site "D"**  
**(Nov 2015)**

Site "D" encompasses 10 acres of agricultural grassland. The general type of soil found on the site consists of Alderwood gravelly sandy loam. The steepest slope on the site is approximately 5%.

The Washington State Department of Corrections (DOC) completed an environmental checklist for compliance with the State Environmental Policy Act (SEPA). A Determination of Non-Significance was issued on August 18, 1992. The Tacoma-Pierce County Health Department (TPCHD) has issued a solid waste permit annually to DOC for the application of biosolids to this site since November 12, 1992, until the adoption of Ecology's Biosolids Management Rule, Chapter 173-308 of the Washington Administrative Code, in 1998. Since that time, utilization of biosolids on this site has continued under provisional approval as allowed under Ecology's *Biosolids General Permit*.

As described in DOC's General Land Application Plan, lime stabilized biosolids generated from the McNeil Island Wastewater Treatment Plant and land applied to Site "D" will meet Class B pathogen reduction and vector attraction reduction. Biosolids are held in the 3,500-gallon holding tank for lime stabilization, in order to achieve pathogen reduction and vector reduction requirements. Once time limits are achieved, the lime-stabilized liquid biosolids are loaded directly into the tanker truck and immediately applied to the site. No storage of biosolids at the land application site is necessary.

Domestic livestock (No longer kept on Island) will be restricted from grazing on grass for a minimum of thirty days after biosolids application. Since this application site has a low potential for public exposure due to the remote location and that the site is fenced, public access will be restricted for a minimum of thirty days after the application of biosolids. During the time when access is restricted, signs will be posted around the application site at all significant points of access and otherwise around the perimeter so that they can be noticed and read by a reasonably observant person.

It is unlikely that the pasture grasses will be harvested from this site. However, if in the future it is desired to harvest the pasture grass from this biosolids application site, harvesting will occur a minimum of thirty days after biosolids application.

Site "D" contains no surface waters that would require setbacks. Biosolids will not be applied to this site when the water table is within three feet of the surface of the ground. The TPCHD may allow biosolids application to this site if the water table is a minimum of two feet from the surface of the ground and application is to take place during the time of year for a receding water table (that is, late spring)

Biosolids will not be applied within 200 feet of encumbering water wells.

Because this site is not intensively managed for agricultural production, biosolids will be applied at conservative application rates typically around 1.5 dry tons of biosolids per acre per year. If DOC desires to increase the application rate to this site above 1.5 dry tons per acre per year, approval will be obtained from the TPCHD prior to such application but will remain at or below the agronomic rate for the crop to be grown.

Biosolids will be applied to this site using a 3,300-gallon tanker truck. Biosolids can be applied by either spraying the biosolids manually or discharging the biosolids from a pressurized discharge while driving on the site. Biosolids are being applied utilizing a fan type sprayer. Biosolids will not be applied to frozen, snow covered, or saturated soils (ponding water).

After reviewing historical biosolids quality, the biosolids sample collected in August 1997 contained 69.5 mg/kg of arsenic. This concentration of arsenic exceeds the "Table 3" pollutant concentration limits for arsenic established at 41 mg/kg, but is below the Table 1 Ceiling Concentration of 75 mg/kg for arsenic. The laboratory results from 2004, lists arsenic levels at 3.14 and 5.21 mg/kg, well below the range experienced in 1997. MICC will continue to monitor its biosolids in order to assess the variation of biosolids quality at different times of the year, once in March and in September. To assure that the biosolids pollutant concentrations remain below the pollutant concentration limits listed in Table 3 of Ecology's Biosolids Management Regulation, WAC 173-308.

As required by WAC 173-308-310(6), maps are attached that show the location and means of access to the site: topographic relief of the application site and surrounding area: adjacent properties and uses and their zoning classifications: surface water bodies within ¼ mile of the site: the location of any wells within ¼ mile of the site: and, the width of buffer zones to wells, property boundaries and other areas requiring buffers.

As determined by the SEPA process, no critical areas or threatened or endangered species or critical habitat have been identified on this site that would prevent biosolids utilization. Therefore, no maps have been provided. Also, after reviewing the Tacoma-Pierce County Health Department records, no well head protection area has been identified on McNeil Island.

