

INTERGATE COLUMBIA, LLC

BUILDINGS A AND B

**ADDENDUM C TO THE INDUSTRIAL
WASTEWATER LAND TREATMENT SYSTEM
ENGINEERING REPORT; APPROVED JULY 2019**

PREPARED FOR:

SABEY CORPORATION
INTERGATE COLUMBIA, LLC
12201 TUKWILA INTERNATIONAL BLVD.
4TH FLOOR
SEATTLE, WA 98168

PREPARED BY:

GRETTE ASSOCIATES^{LLC}
151 SOUTH WORTHEN STREET, SUITE 101
WENATCHEE, WA 98801

JUNE 2021

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INTRODUCTION

The following information is provided by Grette Associates, LLC of Wenatchee, WA as Addendum C to the Industrial Wastewater Land Treatment System Engineering Report, Intergate Columbia, LLC Buildings A & B, prepared by David Evans & Associates, Inc. on behalf of SABEY Corporation, DASCINC20001, revision dated May 2019; DOE Permit No. ST0501309; Tracking Numbers 1804-1A. The information provided below serves as a supplemental update to the engineering report which was approved by Department of Ecology in July of 2019 and includes updates to the project's landscaping design which have occurred since approval along with a request to increase the permitted volume of IWW disposal via land application through the existing landscape irrigation system at the SABEY Intergate Columbia, LLC campus from 37,000 gallons/day at peak capacity to 54,000 gallons/day based on available metered data.

No changes are requested to the 28,000 gallons of land application permitted on the agricultural spray field to be located on the hillslope above the campus. This amount will remain the same, consistent with existing permitting. To date, the agricultural spray field located on the hillslope above the Intergate campus has not yet been constructed and remains a secondary priority to the disposal of IWW utilizing land application to the existing landscaping, consistent with Addendum B. No changes to the irrigation system or spray field design are proposed at this time and the design for these project elements remains unaltered from that which was included in the approved May 2019 engineering report and Addendum B submitted in December of 2019. The requested increase of IWW land application utilizing the existing landscape irrigation system is based off of the increase in acreage of landscaping at the site since the previous addendum was submitted and the observed metered water requirements to maintain the existing landscaping during the growing season. An updated site plan is provided in this application, indicating where additional landscaping has been installed at the campus since the approval of the previous Addendum B (Sheets 1-4). Metered water data for the irrigation requirements of the existing landscaping is also provided in the attached table.

PROJECT UPDATES

REQUEST TO INCREASE LANDSCAPING IWW APPLICATION

As part of the regular operation of the SABEY Intergate Columbia Campus located at 404 Grant Road in East Wenatchee, WA, approximately 85,000 gallons of industrial waste water (IWW) is expected to be generated each day during the peak cooling season once the campus reaches 100% occupancy and is at full build-out. All of the IWW at the site has been deemed appropriate for land application as a primary means of disposal, as outlined within the approved May 2019 engineering plan. All of the industrial waste water (IWW) produced by existing and future

buildings A, B, C, and D will be collected and temporarily stored in a series of six (6) connected 10,000-gallon above ground temporary storage tanks; consistent with Addendum B which was submitted in December of 2019. The industrial waste water (IWW) stored within the connected above ground storage tanks is plumbed into the existing irrigation system and future agricultural spray field (See the original addendum attached to the approved May 2019 engineering plan for original landscape irrigation and agricultural spray field design details and calculations). Pumped water from the storage tanks is metered and applied to the existing landscaping utilizing automated application rates per the approved May 2019 project design; up to 37,000 gallons per day of IWW land application on the campus landscaping.

Since approval of Addendum B in December of 2019, construction on future Building D has occurred and the final landscaping plan has been installed at the site. Landscaping around Building D and at the Intergate Columbia, LLC campus has increased in acreage from the estimated site plan used to calculate application rates in Addendum B. It is estimated that the acreage of landscaping at the SABEY Intergate Columbia, LLC site has increased from 13.13 acres to 14.05 acres; a 7 percent increase from the estimate used in preparing Addendum B. Most of this increase has occurred as irrigated turf grass, which requires a significant amount of irrigation water during the summer months to remain actively growing. Because of the increase in acreage of landscaping being maintained at the Intergate Columbia, LLC site, the amount of IWW which can be applied to maintain landscaping irrigation must increase from the 37,000 gallons/day requested in Addendum B to the new requested amount of 54,000 gallons/day during the peak months of May through September.

Metered data from late spring of the 2021 growing season supports the increase of IWW land application to 54,000 gallons/day utilizing the existing landscaping at the site. Metered data collected from May 19 to June 16 of 2021 indicates that the existing landscaping at the Intergate campus requires an average of 53,503 gallons/day of water for irrigation (See Table 1 for metered data). SABEY is currently permitted to apply up to 37,000 gallons of IWW per day to maintain the landscaping. The remainder of the water required to keep the landscaping alive is currently coming from the domestic water supply. SABEY Intergate Columbia, LLC requests an increase of the IWW land application rate on the landscaping to 54,000 gallons/day in order to reduce the need for the supplemental domestic water used in irrigation of the landscaping.

It should be noted that during the time period that metered data was collected, the weather was unusually cool for this time of the year. It is expected that in a typical year, irrigation requirements for the landscaping would exceed 54,000 gallons/day of water during the same sampling period. SABEY Intergate Columbia will continue to collect metered data throughout the remainder of 2021 and 2022 growing seasons. It is anticipated that with future data collection, the amount of irrigation water required by the landscaping at the site will on average exceed 54,000 gallons/day From Mid-May through late September, and an updated Addendum may be required to reflect this change and further adjust the IWW application rate to the landscaping.

Application rates of IWW within each disposal area will continue to be monitored and metered to ensure compliance with the original system design and consistent with the approved permit and this Addendum. No additional design changes to the land application areas are proposed at this time. Any excess IWW generated at the site that cannot be disposed of utilizing the land application to the existing landscaping will be disposed of via the Douglas County municipal system; which is the current method of disposal for excess IWW at the Intergate Columbia, LLC Campus.

DISCUSSION

SABEY Corporation, the owners of the Intergate Columbia, LLC campus located at 404 Grant Road in East Wenatchee, WA are submitting this document as Addendum C to the approved Industrial Wastewater Land Treatment System Engineering Report, Intergate Columbia, LLC Buildings A & B, prepared by David Evans & Associates, Inc. on behalf of SABEY Corporation, DASCINC20001, revision dated May 2019; Permit No. ST0501309; Tracking Numbers 1804-1A. This addendum serves to inform Department of Ecology of updates which have occurred to the landscaping of the campus since permit approval in July of 2019 and submittal of Addendum B in December of 2019. Design updates for Department of Ecology to consider include a 7 percent increase in landscaping at the site from the original permit. Additionally, SABEY is requesting that DOE Permit No. ST0501309; Tracking Numbers 1804-1A is updated to allow up to 54,000 gallons of IWW disposal per day at the Intergate Columbia Campus utilizing the existing landscaping irrigation system; an increase from the original approved permit amount of 37,000 gallons of IWW land application disposal per day as approved in Addendum B. The increase in IWW disposal at the site can be accomplished utilizing the existing landscape irrigation system and does not require any changes to the design of the landscape irrigation system or future spray field. This requested increase is supported by metered irrigation water data collected in May and June of 2021. In the event that the production of IWW at the Intergate Columbia, LLC campus exceeds the maximum permitted volume of 54,000 gallons of IWW per day onto the existing landscaping or if IWW generation exceeds the amount which can be disposed of via the land application temporal recommendations for the agricultural spray field as outlined within the approved May 2019 engineering plan, excess IWW will be disposed of utilizing the Douglas County municipal system; the current method of disposal for excess IWW at the site. No additional changes to the design of the irrigation system or spray field are proposed at this time.

QUALIFICATIONS

Eron Drew is a Biologist with expertise in limnology, freshwater ecology, salmonid and ESA species monitoring, plant identification and propagation, habitat assessment, and GIS mapping. Eron has 15 years of professional agricultural experience both designing and managing complex planting systems in central Washington State; including irrigation budgeting and crop selection. She holds bachelor of science degrees in Geology, Zoology, and Conservation Biology from the University of Wisconsin, Madison. Eron works with public and private clients on natural resource related projects including data collection analyses, and permitting related to both development and restoration activities.

TABLE

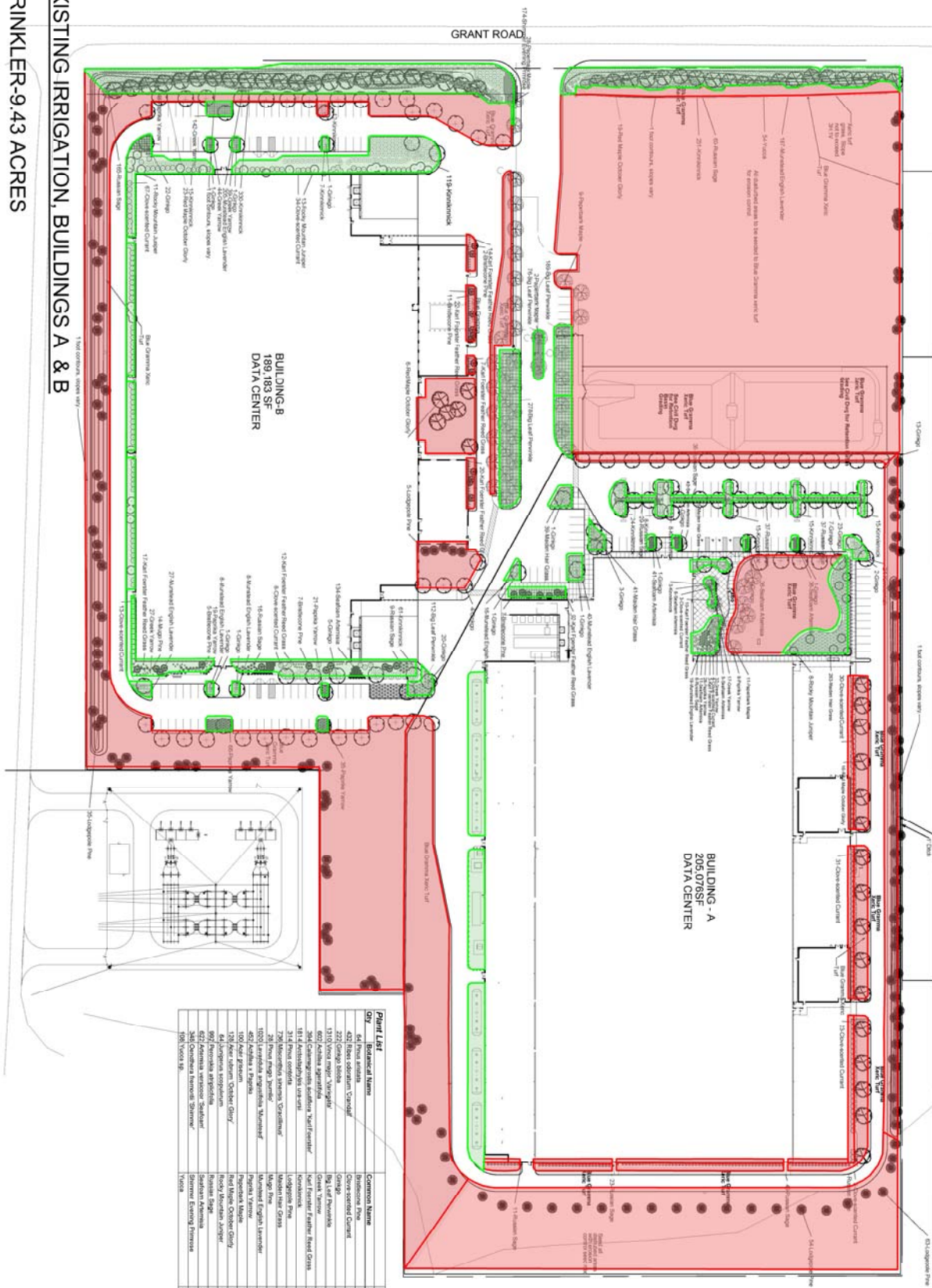
SABEY Columbia Interagate, LLC Metered Irrigation Water Data 2021

	Meter Read Date	Consumption Reading	Consumption Used		Meter Read Date	Consumption Reading	Consumption Used		Meter Read Date	Consumption Used	Total Gallons Used for Irrigation
Site I (BLDG A and B) Domestic Irrigation - In Gallons				Site II (BLDG D) Domestic Irrigation - In Gallons				IWW Meter - Applied In Gallons			
May				May				May			
	5/19/2021	48,275,213	30,570		5/19/2021	433,736	14,792		5/19/2021	5,888	51,250
	5/20/2021	48,305,783	33,638		5/20/2021	448,528	-		5/20/2021	3,149	36,787
	5/21/2021	48,339,421	28,126		5/21/2021	448,528	18,977		5/21/2021	14,748	61,851
	5/22/2021	-	28,126		5/22/2021	-	18,977		5/22/2021	-	47,103
	5/23/2021	-	28,126		5/23/2021	-	18,977		5/23/2021	-	47,103
	5/24/2021	48,423,800	22,744		5/24/2021	505,460	12,499		5/24/2021	10,594	45,837
	5/25/2021	48,446,544	20,379		5/25/2021	517,959	-		5/25/2021	20,786	41,165
	5/26/2021	48,466,923	22,975		5/26/2021	517,959	-		5/26/2021	26,185	49,160
	5/27/2021	48,489,898	10,002		5/27/2021	517,959	271		5/27/2021	30,004	40,277
	5/28/2021	48,499,900	3,978		5/28/2021	518,230	35,708		5/28/2021	30,004	69,690
	5/29/2021	-	3,978		5/29/2021	-	35,708		5/29/2021	22,409	62,095
	5/30/2021	-	3,978		5/30/2021	-	35,708		5/30/2021	21,077	60,763
	5/31/2021	48,511,833	5,232		5/31/2021	625,354	17,531		5/31/2021	30,002	52,765
	6/1/2021	48,517,065	-		6/1/2021	642,885	-		Total	214,846	
Total			241,852	Total			209,148				

June	6/1/2021	48,517,065	4,865	June	6/1/2021	642,885	21,254	June	6/1/2021	30,002	56,121
	6/2/2021	48,521,930	13,010		6/2/2021	664,139	34,118		6/2/2021	30,000	77,128
	6/3/2021	48,534,940	10,257		6/3/2021	698,257	27,505		6/3/2021	30,003	67,765
	6/4/2021	48,545,197	9,280		6/4/2021	725,762	24,763		6/4/2021	30,002	64,045
	6/5/2021	-	9,280		6/5/2021	-	24,763		6/5/2021	30,000	64,043
	6/6/2021	-	9,280		6/6/2021	-	24,763		6/6/2021	30,004	64,047
	6/7/2021	48,573,038	5,330		6/7/2021	800,050	7,382		6/7/2021	30,003	42,715
	6/8/2021	48,578,368	4,932		6/8/2021	807,432	15,353		6/8/2021	30,000	50,285
	6/9/2021	48,583,300	9,888		6/9/2021	822,785	28,401		6/9/2021	30,004	68,293
	6/10/2021	48,593,188	8,857		6/10/2021	851,186	24,674		6/10/2021	30,004	63,535
	6/11/2021	48,602,045	10,190		6/11/2021	875,860	29,177		6/11/2021	30,003	69,370
	6/12/2021	48,612,235	4,074		6/12/2021	905,037	20,175		6/12/2021	30,002	54,251
	6/13/2021	48,616,309	7,760		6/13/2021	925,212	14,876		6/13/2021	30,002	52,638
	6/14/2021	48,624,069	6,052		6/14/2021	940,088	4,666		6/14/2021	30,002	40,720
	6/15/2021	48,630,121	4,521		6/15/2021	944,754	16,265		6/15/2021	30,000	50,786
	6/16/2021	48,634,642	-		6/16/2021	961,019	-		6/16/2021	-	-
Total			117,576	Total			318,135	Total		450,031	

GRAND TOTAL:	1,551,588
Avg. Gallons/Day	53,503.03

SHEETS



Plant List

Plant Number	Plant Name	Quantity	Notes
401	Black Alder	1" x 12' - 12'	12'
402	Black Alder	1" x 12' - 12'	12'
403	Black Alder	1" x 12' - 12'	12'
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- SPRINKLER-9.43 ACRES
- DRIP-1.92 ACRES

LANDSCAPE PLAN
PERMIT DWG.



PURPOSE: LANDSCAPING UPDATE TO ADDENDUM C

ADJACENT PROPERTY OWNERS:

① INTERGATE COLUMBIA III LLC
12201 TUKWILA INTERNATIONAL BLVD, 4TH FLOOR
SEATTLE, WA 98168

② STEPHEN AND SUSAN GREGG
24 N VENTURE ROAD
EAST WENATCHEE, WA 98802

IRRIGATION BLDG A AND B

 **Grete Associates**
ENVIRONMENTAL CONSULTANTS

















LAT. 47.4072 N / LONG. -120.1870 W

IN: SABEY DATA CENTER; INTERGATE COLUMBIA, LLC
404 GRANT ROAD
EAST WENATCHEE, WA

COUNTY OF: DOUGLAS
STATE: WA
APPLICATION BY:

SHEET NO. 1 OF 4 DATE: 6/25/21

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811

	BASED ROCK W/ INTO 1' DEPTH
	TOPSOIL, TILDED INTO 4' EXISTING SOIL
	WEED BARBERS
	STRIPED B&B COBBLE 10-12" DEPTH
	WEED BARBERS
	BASED W/ INTO 3" DEPTH
	TOPSOIL, TILDED INTO 4' EXISTING SOIL
	SEPARATE LAYER
	TOPSOIL, SCAPER SUBGRADE 10' DEPTH
	THREE LAY BOLLER
	TWO LAY BOLLER
	ONE LAY BOLLER
	ROOT BARBERS
	UNASPECT EDWARD UNASPECT ROCK
	UNASPECT EDWARD UNASPECT ROCK
	AREAS ONLY

1. SEE LANDSCAPE SCHEDULE AND NOTES, SHEET L1.03
2. SEE PLANTING DETAILS, SHEET L1.00
3. SEE IRRIGATION PLANS, SHEETS L1.00 - L1.09



KDWSALASO'BRIEN
10202 Fifth Avenue NE, Suite 300
Seattle, Washington 98125
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DAVID EVANS & ASSOCIATES, INC
1620 W MARINE VIEW DRIVE - SUITE 200
EVERETT, WASHINGTON 98201
TEL: (425) 250-4099
FAX: (425) 250-3230

OWNER:
SABEY DATA CENTER PROPERTIES, LLC
12201 Tukwila International Blvd., Fourth Floor
Seattle, WA 98168-5121
TEL: (206) 281-8700
FAX: (206) 282-9951

ADJACENT PROPERTY OWNERS:

② STEPHEN AND SUSAN GREGG
24 N VENTURE ROAD
EAST WENATCHEE, WA 98802

DRIP-0.4 ACRES

 **Grete Associates^{LLC}**
ENVIRONMENTAL CONSULTANTS

LAT. 47.4072 N / LONG. -120.1870 W

404 GRANT ROAD
EAST WENATCHEE, WA

COUNTY OF: DOUGLAS
STATE: WA

APPLICATION BY:

SHEET NO. 2 OF 4 DATE: 6/25/21

SERVICE ACCESS & FIRE LANE

BERM MATCHLINE - A-1 (SEE A-2)

LIMIT OF WORK

11/11/11

BEGINNING OF BERN

MATCHLINE - SHEET L1.03

7

SABEY EXISTING IRRIGATION, COMBINED BUILDING D

SPRINKLER-2.3 ACRES

DRIP-0.4 ACRES

GENERAL NOTES:

1. SEE LANDSCAPE SCHEDULE AND NOTES, SHEET L105
2. SEE PLANTING DETAILS, SHEET L101
3. SEE IRRIGATION PLAN, SHEETS L106 - L110

LEGEND

- WASHED ROCK MULCH TO 4" DEPTH
- WEED BARRIER
- KANSASROOT GROUND COVER
- 6" TOPSOIL, TILLED INTO 4" EXISTING SOIL
- 3" BARK MULCH
- SEE PLANT SCHEDULE, SHEET 1.100
- SHORTS TURN
- 4" TOPSOIL, SQUARE SUBGRADE TO 4" DEPTH

GRANT ROAD
↑

ANCE
TE

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AS-BUILT
L1.04

INTERGATE COLUMBIA II
BUILDING D
4405 GRANT ROAD
EAST WENATCHEE, WA 98802

PROJECT # DAS000000039



KDWSALASO'BRIEN
 10202 Fifth Avenue NE, Suite 300
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TEL: (425) 259-4099
FAX: (425) 259-3230
www.deainc.com

SABEY
Data Centers

OWNER:
SABEY DATA CENTER PROPERTIES, LLC
12201 Tukwila International Blvd., Fourth Floor
Seattle, WA 98168-5121
TEL: (206) 281-8700
FAX: (206) 282-9951
www.sabeydatacenter.com

PURPOSE: LANDSAPING UPDATE TO ADDENDUM C

ADJACENT PROPERTY OWNERS:

① INTERGATE COLUMBIA III LLC
12201 TUKWILA INTERNATIONAL BLVD, 4TH FLOOR
SEATTLE, WA 98168

② STEPHEN AND SUSAN GREGG
24 N VENTURE ROAD
EAST WENATCHEE, WA 9880

IRRIGATION BLDG D-3



Grete Associates
ENVIRONMENTAL CONSULTANTS

LAT. 47.4072 N / LONG. -120.1870 W

IN: SABEY DATA CENTER; INTERGATE COLUMBIA, LLC

404 GRANT ROAD
EAST WENATCHEE, WA
COUNTY OF: DOUGLAS
STATE: WA
APPLICATION BY:

SHEET NO. 4 OF 4 DATE: 6/25/21