

Commonwealth of Virginia

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March 31, 2022

Mr. Michael Liberati Corteva Environmental Remediation 974 Centre Road, Building 735 Wilmington, DE 19805

VIA ELECTONIC MAIL

Re: North Park Technical Execution Plan Floodplain Excavation Addendum Former DuPont Waynesboro Site AOC 4 Waynesboro, Virginia EPA ID# VAD003114832

Dear Mr. Liberati:

This letter acknowledges the receipt and review of the *North Park Technical Execution Plan Floodplain Excavation Addendum* dated December 2020, submitted to the Virginia Department of Environmental Quality, Office of Remediation Programs (VDEQ) by AECOM on behalf of Corteva Agriscience. The addendum addresses changes that were made to satisfy the City of Waynesboro's desire to preserve two large trees in the area of excavation. Verbal approval of the addendum was granted verbally January 2021 and this letter confirms that verbal approval.

If you have any questions, you may contact me at 540-209-3663 or by email at <u>William.jordan@deq.virginia.gov</u>.

Sincerely,

W. aliforda

W. Calvin Jordan Corrective Action Project Manager Office of Remediation Programs

cc: DuPont Waynesboro Correspondence File Josh Collins, AECOM Graham Simmerman, VRO VDEQ Jacqueline Morrison, US EPA



North Park Technical Execution Plan Floodplain Excavation Addendum

Former DuPont Waynesboro Site Area of Concern (AOC) 4 Waynesboro, Virginia

Submitted on behalf of: E.I. DuPont de Nemours and Company, a wholly-owned subsidiary of Corteva Agriscience[™]

Submitted by: AECOM 625 West Ridge Pike Suite E-100 Conshohocken, PA 19428

Project Number: 60594242 Date: December 2020

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1.0 Introduction

AECOM has prepared this Addendum to the North Park Bank Management Areas (BMAs) -Technical Execution Plan (TEP; AECOM 2020) on behalf of E.I. DuPont de Nemours and Company, a wholly-owned subsidiary of Corteva Agriscience (Corteva) to present the rationale and technical implementation details for a focused floodplain soil excavation within North Park in the City of Waynesboro, Virginia. Previous investigations documented the presence of localized elevated mercury (Hg) concentrations in floodplain soils at North Park (URS, 2014). The Human Health Risk Assessment for Area of Concern 4 (AOC 4) identified potentially complete exposure pathways and Hazard Indices that exceeded site-specific screening criteria for floodplain park area users in North Park (URS, 2014); these areas were recommended for further evaluation during the Corrective Measures Study (CMS). Additional floodplain soil investigations were conducted concurrently with the design and implementation of the North Park BMA remedial actions so as to conduct any additional remedial actions within the park in a single mobilization to minimize disruption within the park.

1.1 TEP Scope

This section summarizes the scope of this TEP on a section-by-section basis. Section 1.2 of this TEP describes the purpose and objectives of the Addendum to the North Park BMA TEP.

Section 2.0 summarizes the pre-design sampling activities (Section 2.1) and data analysis (Section 2.2) conducted to support the proposed floodplain excavation at North Park.

Section 3.0 summarizes the results and data evaluation for the floodplain soils.

Section 4.0 describes the remedial action being implemented, including site preparation and erosion control (Section 4.1), clearing and grubbing (Section 4.2) remedial measures (Section 4.3), and waste management (Section 4.4).

Section 5.0 lists the references cited in this plan.

Appendix A contains the construction drawings. Appendix B contains the relevant analytical data.

1.2 Purpose and Objectives

The purpose of this TEP is to describe the approach for implementing remedial actions to reduce potential exposure to elevated Hg concentrations in floodplain soil. The objectives of the Phase 1 interim measures are as follows:

- Reduce exposure to surficial soils with elevated Hg concentrations through removal and disposal of surficial (0-6") soils within the footprint of the excavation.
- Establish institutional controls to reduce the likelihood of exposure to elevated Hg concentrations in soils left in place.

2.0 Pre-Design Soil Sampling Laboratory Analysis

2.1 Pre-design Soil Sampling

Pre-design soil sampling was conducted at targeted locations to better characterize the extent of total mercury (THg) in floodplain soils within North Park as described in the North Park Bank Management Areas 2019 Pre-design Investigation – Soil Sampling Plan (AECOM, 2019). Sample locations were selected to further refine the vertical and horizontal extent of elevated Hg concentrations identified in previous investigations (URS, 2014), and to close data gaps along the top of bank berm. Step-out delineation sampling was conducted over several mobilizations between March 2019 and March 2020. A total of 125 locations were sampled as part of the pre-design sampling efforts.

2.2 Sample Collection

Soil boring locations were located in the field using a global positioning system (GPS) capable of sub-meter accuracy (i.e., Trimble Geo xH 6000). Consistent with previous floodplain soil sampling conducted in AOC 4, vertical sampling was performed from the surface to a depth of 2.5 feet in 6-inch intervals (i.e., 0-0.5, 0.5-1.0, 1.0-1.5, 1.5-2.0, and 2.0-2.5-feet), at each location. Stones and other debris greater than 2" were removed. A minimum of 500 grams (g) of soil was collected from each 6-inch depth interval. Samples were stored in uniquely labeled, one-liter, plastic containers, and packed and shipped to the laboratory on wet ice for further processing and analysis. Laboratory Procedures

2.3 Sample Preparation and Analysis

Following sample collection and shipment, soil samples were prepared for analysis at the Eurofins/Lancaster Labs. Surficial soil samples (i.e. 0 to 0.5-feet interval) were analyzed as discrete soil intervals. Soils from the 0.5-2.5 feet intervals were homogenized using the cone and quartering methods as per laboratory standard operating procedures.

After homogenization, samples were analyzed for THg using EPA Method SW 846 7471A and moisture content (Method SM20 2540G-1997) was determined for the 0-0.5 feet interval, and for a composite from the 0.5-2.5-feet; with each sample interval sample having equal weight contribution to the composite.

3.0 Results and Data Evaluation

Floodplain soil data were evaluated using the approved Surficial Soils Evaluation Framework (AECOM, 2018). Samples within the North Park floodplain were grouped into three human health exposure sub-areas as shown in Figure 1. Exposure point concentrations (EPC; 95% UCL_{Mean}) were calculated for each exposure sub-area using ProUCL 5.1. Representative EPCs were compared to the approved, site-specific screening values in the Surficial Soils Evaluation Framework (See Table 1; AECOM, 2018). Appendix B provides complete analytical data included in the calculation of exposure point concentrations.

Soil THg concentrations within the floodplain exposure sub-areas being evaluated ranged from 0.04 mg/kg to 291mg/kg; Table 2 provides summary statistics and EPC for each sub-area. Representative EPCs within the Northern Perimeter (67.27 mg/kg) and Playground (8.32 mg/kg) sub-areas were below the site-specific Floodplain Park Area User screening level (73 mg/kg); the Southern Perimeter EPC (107.7 mg/kg) exceeded the screening level. The Floodplain Park Area screening level of 73 mg/kg is protective of child (0 to 6 years old) and adult recreational users that spend 84 days per year for 26 years at the park coming into direct contact (i.e., incidental ingestion, dermal contact, and inhalation of windblown dust) with the floodplain soil.

A floodplain soil excavation was proposed to the City of Waynesboro (landowner) to address elevated THg concentrations in soil within the Southern Perimeter. The proposed soil excavation included excavation and disposal of THg impacted soil to a depth of 2.5 feet below the ground surface as shown in Figure 2. The proposed excavation would have resulted in a post-excavation EPC of 25.2 mg/kg. The City of Waynesboro rejected the proposed soil excavation plan in favor of a plan that would preserve mature trees within the footprint of the proposed excavation. At the City's request, a revised excavation was designed which included the excavation of impacted soil to a depth of 0.5 feet, outside of a tree protection buffer (Figure 2). No excavation activities were performed within the tree protection buffer with the exception of an isolated area that was removed using an air knife to address a THg concentration greater than 200 mg/kg in the 0-0.5 feet interval at location NP-117. The City of Waynesboro plans to allow the area within the tree protection buffer to become vegetated with taller vegetation and/or wildflowers to discourage park users from recreating (i.e., coming into direct contact with soil) within the non-excavated area. Updated EPC concentrations for the revised South Perimeter excavation area were calculated for the surficial (0-0.5 feet; 16.79 mg/kg) and deep (0.5-2.5 feet; 181.6 mg/kg). Institutional controls limiting excavation activities within the Southern Perimeter excavation area will be included with the Uniform Environmental Covenants Act (UECA) for North Park, which will also include the Bank Management Areas.

4.0 Remedial Action

The following sections describe the remedial actions to address elevated THg concentrations in floodplain soil within the Southern Perimeter sub-area. Design Specifications referenced are included in the North Park BMA TEP (AECOM; 2020) and are not included in this document.

4.1 Clearing and Grubbing

Following site preparation activities and installation of temporary erosion and sediment controls, clearing and grubbing of ground cover and select shrubs and trees within the work area was conducted. Larger, healthy trees that provide habitat and scenic value within the park were protected by the Contractor during construction to the extent possible. Trees that were preserved are identified on Drawing C-101. Additional details on selective clearing and grubbing are provided in Specification Section 31 12 00 – Selective Clearing.

All debris generated during clearing and grubbing operations was disposed of in accordance with AECOM's Waste Management Plan, and in accordance with Specification Section 02 60 00 – Contaminated Site Material Removal.

Two large trees located within the floodplain protection zone were protected by establishing a tree protection zone, where no vehicles or excavation is allowed (with the exception of a spot excavation using soft dig methods) within a 30' buffer around the trees, and a tree root advisory zone extending from 30' to 70'/76' where excavation was overseen by an arborist to protect the roots as much as possible.

4.2 Excavation

Mercury impacted soil within the Southern Perimeter excavation area was removed to a depth of 0.5 feet as shown on Drawing C-201 – Excavation Plan. Floodplain soil outside of the tree protection buffer was mechanically excavated. As the excavation approached the edge of the tree protection buffer, all excavation activities were conducted under the direction of a certified arborist who directed the contractor to stop mechanical excavation if critical root structures were encountered. Isolated hot-spot removal within the tree protection buffer was performed with hand tools and/or an air knife under direct supervision of the certified arborist. Excavated soil was loaded directly into dump trucks and hauled directly to the disposal facility.

Excavated materials were pre-characterized prior to disposal. Refer to Section 4.4 for additional details on waste management procedures. Post-excavation samples were not collected as existing composite soil sample data collected during the pre-design investigation are available.

4.2.1 Backfilling

A demarcation layer (e.g. snow fence or similar) was placed on the surface of the excavation area as part of the institutional controls for the site. Following placement of the demarcation layer, planting substrate was placed to blend with the existing grade throughout the excavation area. Additional details on backfill and topsoil material are provided in Specification Section 31 23 00 – Earthwork and Fill.

Backfill was placed using mechanical methods. Additional details on backfill and planting substrate material are provided in Specification Section 31 23 00 - Earthwork and Fill.

Common borrow materials were imported from the Former DuPont Jones Hollow Property located on Delphine Avenue in Waynesboro. For planting substrate material, the Jones Hollow Property material was amended so that the composition is an appropriate substrate for planned plant species. Additional details on backfill and topsoil material are provided in Specification Section 31 23 00 – Earthwork.

4.3 Restoration

After backfilling, surfaces were restored with turf grass and wildflower seed mixes as specified by the City of Waynesboro to provide the desired vegetative cover within the park. Native seed and/or turf grass was hand-broadcasted over exposed topsoil. Additional details on seeding and replanting are provided on Drawing C-501 – Restoration Plan and Drawing D-301 – Planting Details and in Specification Section 32 90 00 – Planting and Habitat Restoration.

4.4 Waste Management

The Southern Perimeter soil excavation was conducted in accordance with the *Site-Wide Waste Management Plan for Interim Measures Design and Implementation* (AECOM, 2019). Pre-characterization of soil to be excavated was conducted in accordance with the Waste Management Plan and Specification Section 02 60 00 – Contaminated Site Material Removal.

5.0 References

- AECOM 2020. 100% Technical Execution Plan North Park Bank Management Areas. February 2020
- AECOM 2019. North Park Bank Management Areas 2019 Pre-Design Investigation Soil Sampling Plan. March 2019.
- AECOM. 2019. Site-Wide Waste Management Plan for Interim Measures Design and Implementation. South River Area of Concern 4 Phase 1 Interim Measures. Revised: October 2019.
- URS. 2014. Human Health Risk Assessment Report. Former DuPont Waynesboro Site -Area of Concern 4, Waynesboro, Virginia. September 2014.

Tables

Table 1 Human Health Screening Levels for Mercury in Floodplain Soil North Park Technical Execution Plan - Floodplain Excavation Addendum Former DuPont Waynesboro Site AOC-4 Waynesboro, Virginia

Current/Future Potential Land Use	Receptor	Media	Screening Level (mg THg/kg)	Source	Exposure Frequency
Residential	Resident (Adult/Child)	Floodplain Soil	17	VADEQ Screening Level for HHRA	350 days/year
Hay/Pasture	Farmer (Adult/Child)	Floodplain Soil	17	VADEQ Screening Level for HHRA	350 days/year
Park	Floodplain Area Park User (Adult/Child)	Floodplain Soil	73	Site-Specific	84 days/year
-	South River (Adult/Child)	Bank Soil	108	Site-Specific	48 days/year
-	South River Hunter (Angler)	Bank Soil	820	Site-Specific	28 days/yr
Forested	Floodplain Area Hunter	Floodplain Soil	2300	Site-Specific	28 days/yr

Notes:

THg - Total mercury, assumes mercury is present as mercuric chloride

MeHg is not a COPC for human health

Site-specific exposure assumptions and pathways (ingestion, dermal, inhalation) consistent with those used in the HHRA

Screening value based on a hazard quotient (HQ) of 1

mg THg/kg - milligrams of total mercury per kilogram soil

Table 2 Total Mercury Concentrations in Soil North Park Technical Execution Plan - Floodplain Excavation Addendum Former DuPont Waynesboro Site AOC-4 Waynesboro, Virginia

Pre-Existing Conditions ¹					
Sub-Area	Number of Samples	THg Max (mg/kg)	THg UCL (mg/kg)	Floodplain Park Area User Screening Level (mg/kg)	UCL Notes
Southern Perimeter	98	291	107.7	73	95% Chebyshev (Mean, Sd) UCL
Northern Perimeter	83	216	67.27	73	95% Approximate Gamma UCL
Playground	18	22.4	8.324	73	95% Adjusted Gamma UCL
	Initial Prop	oosed Pos	st-Excava	tion Conditions ²	
Sub-Area	Number of Samples	THg Max (mg/kg)	THg UCL (mg/kg)	Floodplain Park Area User Screening Level (mg/kg)	UCL Notes
Southern Perimeter	45	81	25.2	73	95% Chebyshev (Mean, Sd) UCL
Revi	sed Surfici	al Soil Ex	cavation -	Existing Conditions	3
Sub-Area	Number of Samples	THg Max (mg/kg)	THg UCL (mg/kg)	Floodplain Park Area User Screening Level (mg/kg)	UCL Notes
Southern Perimeter Surficial (0'-0.5')	49	241	65.77	73	95% Adjusted Gamma UCL
Southern Perimierter Deep (0.5'-2.5')	49	291	181.6	73	95% Chebyshev (Mean, Sd) UCL
Revised Surficial Soil Excavation - Post-Excavation Conditions ³					
Sub-Area	Number of Samples	THg Max (mg/kg)	THg UCL (mg/kg)	Floodplain Park Area User Screening Level (mg/kg)	UCL Notes
Southern Perimeter Surficial (0'-0.5')	23	59.6	16.79	73	95% Adjusted Gamma UCL
Southern Perimierter Deep (0.5'-2.5')	49	291	181.6	73	95% Chebyshev (Mean, Sd) UCL

Notes:

1 - Existing conditions

2 - Initial proposed 2-foot deep excavation

3 - Revised surficial soil excavation (0'-0.5')

THg - Total Mercury

mg/kg - milligram per kilogram

UCL - Upper Confidence Level

Figures



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Appendices

Appendix A – Design Drawings





NORTH PARK BMAS SOUTH RIVER, LEFT BANK, RRMS 0.86 TO 1.05 AND 1.15 TO 1.27

AREA OF CONCERN 4 - INTERIM REMEDIAL MEASURES FORMER DUPONT WAYNESBORO SITE WAYNESBORO, VIRGINIA 100% DESIGN - ISSUED FOR CONSTRUCTION DRAWING SET

TITLE	REV	DATE
	1	08-11-2020
AL NOTES	0	02-20-2020
	0	02-20-2020
Ν	0	02-20-2020
Ν	0	02-20-2020
ONTROL PLAN	1	08-11-2020
ONTROL PLAN	0	02-20-2020
	1	08-11-2020
	0	02-20-2020
	0	02-20-2020
	0	02-20-2020
	1	08-11-2020
	0	02-20-2020
	0	02-20-2020
	0	02-20-2020
ROSS SECTIONS	0	02-20-2020
N AND SUBGRADE	0	02-20-2020
	0	02 20 2020
	0	02-20-2020
	0	02-20-2020
RATION CR033 SECTIONS	0	02-20-2020
	0	02_20_2020
	0	02-20-2020
	0	02-20-2020
	0	02-20-2020
	0	02-20-2020
	0	02-20-2020
	0	02 20 2020
	0	02-20-2020
		02-20-2020
		02-20-2020
	0	02 20 2020
	U	02-20-2020



PROJECT

NORTH PARK BMAS SOUTH RIVER, LEFT BANK, RRMS 0.86 to 1.05 AND 1.15 TO 1.27 AREA OF CONCERN 4 - IRM FORMER DUPONT WAYNESBORO SITE WAYNESBORO, VA

CLIENT

CORTEVA AGRISCIENCE 974 CENTRE ROAD CHESTNUT RUN PLAZA 735 WILMINGTON, DE 19805 www.corteva.com

CONSULTANT

AECOM 625 WEST RIDGE PIKE, SUITE E-100 CONSHOHOCKEN, PA 19428 610.832.3500 tel 610.832.3501 fax www.aecom.com



REGISTRATION



1	08-11-2020	FLOODPLAIN EXCAVATION
0	02-20-2020	100% DESIGN
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60594242

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-101



1	08-11-2020	FLOODPLAIN EXCAVATION
0	02-20-2020	100% DESIGN
I/R	DATE	DESCRIPTION





Appendix B – Analytical Data

Appendix B Analytical Data North Park Technical Execution Plan - Floodplain Excavation Addendum Former DuPont Waynesboro Site AOC-4 Waynesboro, Virginia

Sample ID	THg (ma/ka)
Parking Lot	0.00
WSR-S-FPS-NP-R-1(0-0.5) WSR-S-FPS-NP-R-2(0-0.5)	22.4
WSR-S-FPS-NP-R-3(0-0.5)	13.4
WSR-S-MN-FP-23(0.0-0.5)	1.33
WSR-S-MN-AFP-545(0.0-0.5)	0.29
WSR-S-FPS-NP-R-1(1-1.5)	0.40
WSR-S-FPS-NP-R-2(1-1.5)	5.90
WSR-S-MN-AFP-543-COMP	14.1
WSR-S-MN-AFP-545-COMP	0.04
SS0319-NP-16-(0.0-0.5)	0.37
SS0319-NP-17-(0.0-0.5)-D	1.44
SC0319-NP-16-COMP	0.22
SC0319-NP-17-COMP	1.36
SS0919-NP-116-(0.0-0.5)	1.76
Northern Perimeter	
SS0319-NP-05-(0.0-0.5)	119
SS0319-NP-06-(0.0-0.5) SS0319-NP-07-(0.0-0.5)	92.8
SS0319-NP-08-(0.0-0.5)	0.06
SS0319-NP-09-(0.0-0.5)	40.3
SS0319-NP-10-(0.0-0.5)	36.2
SS0319-NP-109-(0.0-0.5)	21b 11.8
SS0819-NP-110-(0.0-0.5)	151
SS0819-NP-111-(0.0-0.5)	44.6
SS0819-NP-112-(0.0-0.5)	3.87
SS0819-NP-114-(0.0-0.5)	118
SS0619-NP-43-(0.0-0.5)	34.1
SS0619-NP-44-(0.0-0.5)	207
SS0619-NP-45-(0.0-0.5)	159 56.5
SS0819-NP-63-(0.0-0.5)	189
SS0819-NP-64-(0.0-0.5)	135
SS0819-NP-65-(0.0-0.5)	39.4
SS0819-NP-67-(0.0-0.5)	162
SS0819-NP-68-(0.0-0.5)	0.86
SS0819-NP-69-(0.0-0.5)	0.68
SS0819-NP-70-(0.0-0.5) SS0819-NP-89-(0.0-0.5)	25.4
SS0819-NP-90-(0.0-0.5)	21.1
SS0819-NP-91-(0.0-0.5)	13.7
SS0819-NP-95-(0.0-0.5)	88
SS0819-NP-99-(0.0-0.5)	4.52
WSR-S-MN-FP-15(0.0-0.5)	3.01
WSR-S-MN-FP-24(0.0-0.5)	185
WSR-S-MN-AFP-542(0.0-0.5) WSR-S-MN-AFP-544(0.0-0.5)	46.6
WSR-S-MN-AFP-548(0.0-0.5)	82.2
WSR-S-MN-AFP-549(0.0-0.5)	12.4
SC0319-NP-05-COMP SC0319-NP-06-COMP	87.9
SC0319-NP-07-COMP	20.2
SC0319-NP-08-COMP	0.31
SC0319-NP-09-COMP	8.37
SC0819-NP-109-COMP	141
SC0319-NP-11-COMP	5.78
SC0819-NP-110-COMP	40.4
SC0819-NP-112-COMP	12.1
SC0819-NP-113-COMP	49.2
SC0819-NP-114-COMP	73
SC0019-INP-43-COMP SC0619-NP-44-COMP	11.8
SC0619-NP-45-COMP	30.3
SC0619-NP-46-COMP	28.4
SC0819-NP-63-COMP SC0819-NP-64-COMP	153
SC0819-NP-65-COMP	14.4
SC0819-NP-66-COMP	41.7
SC0819-NP-67-COMP	67.5
SC0819-INP-00-COMP SC0819-NP-69-COMP	3.94
SC0819-NP-70-COMP	11.8
SC0819-NP-89-COMP	94.6
SC0819-NP-91-COMP	9.03 2.84
SC0819-NP-95-COMP	51.1
SC0819-NP-98-COMP	2.6
SC0819-NP-99-COMP WSR-S-MN-FP-15-COMP	30.3
WSR-S-MN-FP-24-COMP	21.3
WSR-S-MN-AFP-544-COMP	10.7
WSR-S-MN-AFP-548-COMP	17.5
SS0919-NP-115-(0.0-0.5)	03.1 76.9
SC0919-NP-115-COMP	38.5
SC0320-BB-01-COMP	50.3
SS0320-BB-01-(0.0-0.5)	6.11 0.0445
SS0320-BB-02-COMP	0.714
SS0320-BB-03-(0.0-0.5)	83
SS0320-BB-03-COMP	36.8
000020-00-04-(0.0-0.0)	0.19

Appendix B Analytical Data North Park Technical Execution Plan - Floodplain Excavation Addendum Former DuPont Waynesboro Site AOC-4 Waynesboro, Virginia

Sample ID Southern Perimeter	THg (ma/ka)
WSR-S-MN-AFP-541(0.0-0.5)	5.12
WSR-S-MN-AFP-541-COMP	1.17
WSR-S-MN-FP-14(0.0-0.5)	0.57
WSR-S-MN-FP-14-COMP	0.32
WSR-S-MN-FP-21(0.0-0.5)	1.33
WSR-S-MN-FP-21-COMP	0.18
WSR-S-MN-FP-22-COMP	282
WSR-S-MN-FP-22(0.0-0.5)	85.7
SC0319-NP-01-COMP	89.4
SC0319-NP-01-(0.0-0.5)	09.3 231
SS0319-NP-02-(0.0-0.5)	58.9
SC0319-NP-03-COMP	30.0
SS0319-NP-03-(0.0-0.5)	20.6
SC0319-NP-04-COMP	143
SS0319-NP-04-(0.0-0.5)	64.5
SS0819-NP-101-(0.0-0.5)	10.0
SC0819-NP-101-COMP	4.35
SS0819-NP-102-(0.0-0.5)	3.08
SC0819-NP-102-COMP	1.08
SC0819-NP-103-COMP	59.6
SS0819-NP-104-(0.0-0.5)	36.1
SC0819-NP-104-COMP	6.12
SS0819-NP-106-(0.0-0.5)	17.5
SC0819-NP-106-COMP	6.18
SC0919-NP-117-COMP	233
SS0919-NP-117-(0.0-0.5)	204
SS0319-NP-12-(0.0-0.5)	2.10
SC0319-NP-12-COMP	0.96
SC1119-NP-120-COMP	258
SS1119-NP-120-(0.0-0.5)	85.8
SC1119-NP-121-COMP	96.7
SC1119-NP-121-(U.U-U.5)	90.1 201
SS1119-NP-122-(0.0-0.5)	94.3
SC1119-NP-123-COMP	156
SS1119-NP-123-(0.0-0.5)	79.8
SS0319-NP-13-(0.0-0.5)	0.80
SC0319-NP-13-COMP	0.33
SS0319-NP-14-(0.0-0.5)	1.47
SC0319-NP-14-COMP	0.23
SS0319-NP-15-(0.0-0.5)	0.79
SC0319-NP-15-COMP	0.26
SC0619-NP-47-COMP	143
SC0619-NP-48-COMP	23.90
SS0619-NP-48-(0.0-0.5)	174
SC0619-NP-49-COMP	162
SS0619-NP-49-(0.0-0.5)	57.1
SC0619-NP-50-COMP	209
SS0619-NP-50-(0.0-0.5)	12.80
SC0619-NP-51-COMP	288
SS0619-NP-51-(0.0-0.5)	11.5
SC0819-NP-52-COMP	2.98
SC0819-NP-53-COMP	96.2
SS0819-NP-53-(0.0-0.5)	79.5
SC0819-NP-54-COMP	96.1
SS0819-NP-54-(0.0-0.5)	9.01
SC0819-NP-55-COMP	77.6
SS0819-NP-55-(0.0-0.5)	10.9
SC0819-NP-56-COMP	71.0
SS0819-NP-56-(0.0-0.5)	5.87
SCU819-NP-57-COMP	101
550819-NP-57-(0.0-0.5)	/3.0
SS0810-NP-58-(0.0.0.5)	
SC0819-NP-59-COMP	90.0 206
SS0819-NP-59-(0.0-0.5)	103
SS0819-NP-60-(0.0-0.5)	241
SC0819-NP-60-COMP	238
SC0819-NP-61-COMP	144
SS0819-NP-61-(0.0-0.5)	121
SS0819-NP-62-(0.0-0.5)	7.6
SC0819-NP-62-COMP	2.81
SCU819-NP-/1-COMP	134
SS0810-NP-84-(0.0.0.5)	9.11
SC0819-NP-84-COMP	2 71
SC0819-NP-85-COMP	91.1
SS0819-NP-85-(0.0-0.5)	48.4
SC0819-NP-86-COMP	7.09
SS0819-NP-86-(0.0-0.5)	6.97
SS0819-NP-87-(0.0-0.5)	5.87
SC0819-NP-87-COMP	4.57
SC0819-NP-88-COMP	31.0
SS0819-NP-88-(0.0-0.5)	18.8
SCU819-NP-92-COMP	81.0
SS0819-NP-92-(0.0-0.5)	11.5
SC0819-NP-93-(0.0-0.5)	0.95
SC0819-NP-94-COMP	33.60
	0.21
SS0819-NP-94-(0.0-0.5)	
SC0819-NP-94-(0.0-0.5) SC0819-NP-96-COMP	38.7
SS0819-NP-94-(0.0-0.5) SC0819-NP-96-COMP SS0819-NP-96-(0.0-0.5)	38.7 15.8
SS0819-NP-94-(0.0-0.5) SC0819-NP-96-COMP SS0819-NP-96-(0.0-0.5) SC0819-NP-97-COMP	38.7 15.8 150