MOFFATT & NICHOL

104 West 40th Street
14th floor
New York, NY 10018

(212) 768 7454
Fax (212) 768-7936

October 19, 2012

Robert H. Law, Ph.D.
CPG Project Coordinator
de maximis Inc.
186 Center Street, Suite 290
Clinton, New Jersey 08809

Subject: **Invoice period 07/01/2012 to 07/28/2012 - TOM5**
Lower Passaic River Restoration Modeling Program
M&N Project No. 6664

Dear Dr. Law

Please find attached Invoice # 62011 for a total of $141,825.20 for the work carried out by Moffatt & Nichol during the period 07/01/2012 to 07/28/2012 on the tasks specified in the LPR/NB Modeling Program Task Order Memoranda 5 - Scope of Work. This invoice also includes invoices # 192367987 and 192367983 fr om our Subconsultant Deltares for their work done on the tasks specified in the LPR/N B Modeling Program Task Order Memoranda 5 - Scope of Work during May and June 2012

Sincerely,

MOFFATT & NICHOL

John Headland
Project Manager

LPR/NB Modeling Program TOM5

TASKS		Current Invoice	Cumulative Charges	Authorized Amount
Task 1- Project Management	M&N	$ 10,360	$ 57,628	$ 80,060
	DELTARES	$ -	`	$
Task 2 - Data Analysis and Monitoring Design Coordination for Use in Numerical Model	M&N	$ 8,876	$ 83,268	$ 74,548
	DELTARES	$ 53,118	$ 112,426	$ 54,788
Task 3 - System Understanding	M&N	$ 10,815	$ 60,390	$ 103,964
	DELTARES	$ 321	$ 1,037	$ 37,112
Task 4 - LPR/NB Hydrodynamic Modeling	M&N	$ -	$ 11,322	$ 59,548
	DELTARES	$ -	$	- $ 4,208
Task 5 - LPR/NB Sediment Transport Modeling	M&N	$ 5,314	$ 95,738	$ 187,620
	DELTARES	$ 15,386	$ 31,534	$ 43,540
Task 6 - LPR/NB Organic Carbon Modeling	M&N	$ -	$ 431	$ 32,044
	DELTARES	$ 5,822	$ 24,836	$ 21,564
Task 7 - LPR/NB Contaminant Fate and Transport Modeling	M&N	$ 26,053	$ 143,797	$ 1 76,688
	DELTARES	$ 1,315	$ 6,970	$ 36,176
Task 8 - Developing a Complete LPR/NB Modeling SOW, Schedule and Budget	M&N	$ -	$	- $ 11,336
	DELTARES	$ -	$	- $ 2,104
Task 9 - Archiving and Reporting	M&N	$ -	$	- $ 32,500
	DELTARES	$ -	$	- $ 4,208
Task 10 - Computer Support	M&N	$ -	$ 9,840	$ 12,616
	DELTARES	$ -	$	- $
Direct Costs	M&N	$ -	$ 1,086	$ 15,000
	DELTARES	$ 4,446	$ 8,316	$ 21,700
TOTAL		**$ 141,825**	**$ 648,617**	**$ 1,011,324**

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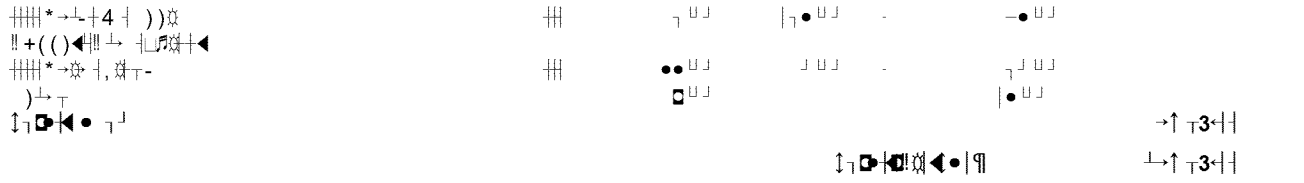

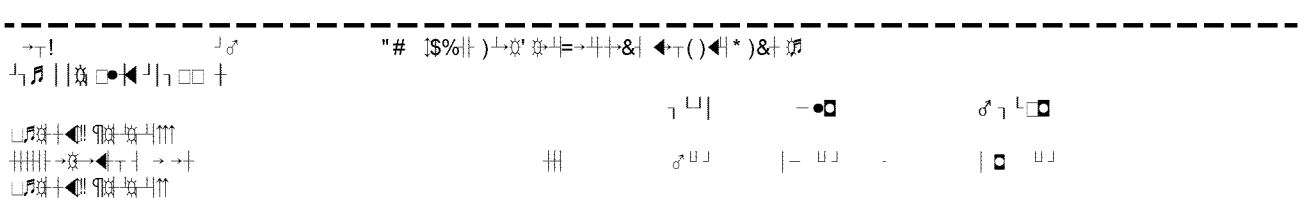

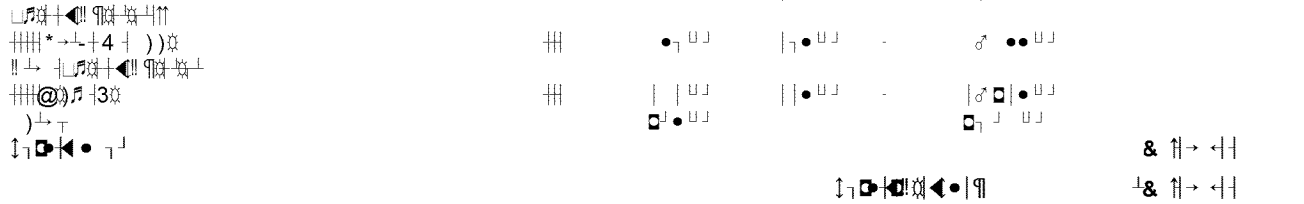

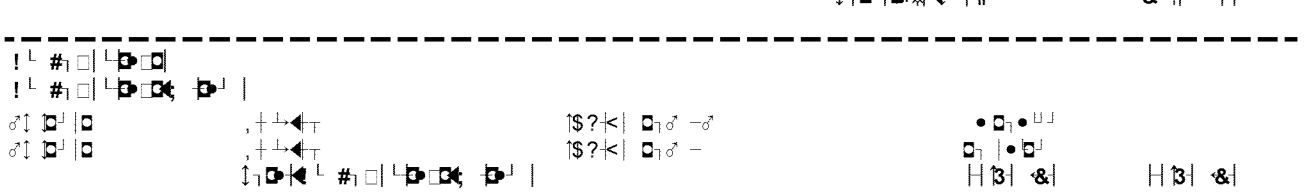

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MOFFATT & NICHOL

104 West 40th Street
14th floor
New York, NY 10018

(212) 768 7454
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Detailed Description of work done by M&N personnel associated to the LPR/NB Modeling Program Task Order Memoranda 5 - Scope of Work for the period 07/01/2012 to 07/28/2012 M&N Project No. 6664

Hydrodynamics Principal Investigator - Rafael Cañizares.

Task 1 – Project Management	Internal coordination with Deltares and M&N Calls and Coordination with Project Coordinator including prepare material such as Dash Board reports. Prepare and review invoices including revision of Deltares budget and invoices Coordinate with Deltares sedimentologist invoice and final report submittal Coordination with Project Coordinator and AQEA Coordination with Deltares regarding invoices and work associated to the Bathymetry analysis task and its budget Internal discussions and coordination to develop the best model version at this time Review and prepare comments regarding EPA model. Attend meeting with EPA regarding EPA modeling issues Review and add to modeling meeting notes
Task 2 – Data Analysis & Monitoring Design Coordination for Use in Numerical Model	Prepare information and coordinate with Ed Garland and Kristen Durocher, regarding Low Flow Spring Tide CWCM event
Task 3 – System Understanding	Digitize and prepare historical bathymetries for understanding of shoal and channel changes in time. Analysis of historical bathymetries, and relation between historical dredging and infilling history
Task 5 – LPR/NB Sediment Transport Modeling	Coordination and discussion of ST model results
Task 7 – LPR/NB Contaminant Fate and Transport Modeling	Review developments in CF&T with Y Xiong Internal coordination with Y. Xiong

Rooni Mathew.

Task 2 – Data Analysis	Review CWCM data plots Review SSP data analysis, review/plot hydrograph preceding core sampling events Develop CWCM low-flow/spring-tide event sampling schedule Develop Tidal 1 and 2 locations for low-flow/spring-tide event Review CWCM data plots, CWCM event 3 data Review CWCM data plots, review location coordinates with AECOM
Task 5 – LPR/NB Sediment Transport Modeling	Review ST modeling progress, review continuity correction minor code change, Review ST modeling progress, review/debug Irene run crash Review baseline and Alt 4 run status
Task 7 – LPR/NB Contaminate Fate and Transport Modeling	Debug RCATOX - negative bed concentrations Review CFT modeling progress Review CFT modeling progress (Hg model changes, particle mixing runs, bed layering bug - VRESUSPC inconsistency with DELTH) Debug bed layering runs Debug bed layering runs, modify ST-SWEM linkage to bypass stability criteria Develop double precision version of ST-SWEM linkage program Discuss CFT modeling with AQEA, debug RCATOX rev bed layering Review unit response runs, debug ST-SWEM linkage for rev bed layering runs

Dinesh Manian

Task 2 – Data Analysis	SSP data analysis; Contaminant transect plots; Plots against shear stress percent exceedance and sedimentation rate; 2011-12 CWCM data analysis: Water column concentrations of COPCs with tide and discharge SSP data analysis: Analysis of contaminant concentration distribution with respect to contaminant groupings in the lower 8 miles CWCM data analysis CWCM data analysis: Time-series and spatial plots of contaminants, OC,TSS, salinity etc.

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	CWCM data analysis: Plotting and analyzing data from the 3 monitoring events
Task 3 – System Understanding	Contaminant transects at RM 7.5 at SSP core locations with single beam bathy data Plotting transects at RM 7.5 and shoals near RM 0 at SSP core locations with single beam bathy and other historical bathy data Analysis of contaminant cores from shoals near RM 0; Plotting contaminant surface concentration with respect to historical bathymetric change; Plotting contaminant core profiles Reanalysis of contaminant groupings in the lower 8 miles: Adding 2004 bathy transects; Reanalysis of contaminant groupings in the lower 8 miles; Using updated 66 and 49 bathys
Task 5 – LPR/NB Sediment Transport Modeling	Making long-term Baseline projection and remediation runs; Setting up updated boundary conditions for Irene simulation Processing and debugging baseline remediation and Projection runs WY2011 and hurricane Irene simulation using continuity correction; computation of maximum scour during event Computation of scour depths and bed elevation change during Hurricane Irene and 16000 cfs storm; Processing baseline projection and remediation runs; Testing code change to speed up the sediment transport run times; Processing bed elevation change and salinity from the long term runs

Yi Xiong

Task 7 – LPR/NB Contaminate Fate and Transport Modeling	Do some research on Cs measurements. Fix the mercury output program and re-run the original mercury model. Start to work on Cs sedimentation. Put the averaged 10 sediment diagenesis values into carb_RCAF14, and run the original mercury model. Remap point and nonpoint sources for TCDD, Hg, and PCBs. Reduce the RCATOX time step to 25s and run the revised TCDD model; change the MERCURY parameters and rerun the Mercury model. Run 4-year TCDD using revised code, and to see the top 6" averaged TCDD concentration.

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	Generate output files to explain the inconsistency in bed thickness change and resuspension rates in the linkage. Take atmospheric load as the boundary Cs condition, work on the particle mixing estimation program for 1 cell. Think about Particle mixing program, work on atmospheric load. Try different particle mixing values and plot the sediment bed profile; do some research on negative concentration values. Check the revised point sources and nonpoint source RCATOX inputs; Re-run the 3 original TCDD tests. Modify the FORTRAN code to re-generate top 6" Mercury concentration. Modify the linux script and Run 3 original TCDD runs. Re-check the tasks; Work on the excel plots for particle mixing rate. Rerun 15-year original TCDD modeling scenarios: 1. with sediment bed, no boundary conditions; 2. no sediment concentration, with boundary conditions; 3. no sediment bed, with all boundaries and point sources and nonpoint sources. Work on different particle mixing rates and depth scenarios. Check the results of 3 original TCDD run scenarios; Think about how to fix the carbon linkage program for sediment be resuspension. Generate the 15-year bed thickness change map; Pick a consistently depositional cell at the river mouth. Modify the Carbon linkage program; Start to do the thickness change pattern for the whole LPRRP domain. Plot the particle mixing depth and particle mixing rate matrix; Check the 3 original TCDD run scenarios. Test the code and write the output to see how to modify the carbon linkage program.

Yelena Chibisova

Task 2 – Data Analysis	Digitize post dredge 1949 bathymetry in RM 4.5 to 6.8 Digitize pos dredge 1932 bathymetry in RM 6.85 to RM 8

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Deltares

Enabling Delta Life

Moffatt & Nichol
Attn. Mister R. Cañizares
104 West 40th Street, 14th Floor
10018 NEW YORK
USA

Date	Our reference	Number of pages
09 July 2012	1002308-000-ZKS-0066	2
From	**Direct line**	**E-mail**
Arno Nolte	+31 (0)15 28 58 430	arno.nolte@deltares.nl

Subject
Deltares secondment - Invoicing for May - June 2012

Dear Mr Cañizares,

With reference to the secondment agreement between Moffatt & Nichol and Deltares for the services of Mr Han Winterwerp and Mr Leo Postma, please find below our invoice for the months of May and June 2012.

During this period, Mr Winterwerp and Mr Postma have been requested by Moffatt & Nichol to contribute to the Lower Passaic River RI/FS study. No requests were received for other projects.

Invoicing is done per authorized activity. The rate for both Mr Winterwerp and Mr Postma is US$ 263 per hour for 2012. The total for this invoice is US$ 26143,20.

The work undertaken per activity is as detailed in the table below:

Contribution to Passaic TOM5 Task 2 – Data analysis and monitoring design coordination for use in numerical model: • Review 2nd survey CWCM • Inspection of the crossections + meeting with Han on reporting
Contribution to Passaic TOM5 Task 3 – System Understanding: *No work undertaken in this period*
Contribution to Passaic TOM5 Task 4 – LPR/NB Hydrodynamic modeling *No work undertaken in this period*
Contribution to Passaic TOM5 Task 5 – Sediment Transport Modeling: • Analysis bathymetry, presentation to CPG & EPA + preperations • Visit NY in wk 24 • Discussions on modeling • Meeting with EPA
Contribution to Passaic TOM5 Task 6 – LPR/NB Organic Carbon Modeling: • Several small OC items • Jim's note + meeting with Jan • Draft memo to Jim + meeting with Jan

P.O. Box 177, 2600 MH Delft, Rotterdamseweg 185, 2629 HD Delft, The Netherlands, T +31 (0)88 33 58 273, F +31 (0)88 33 58 582, www.deltares.l
Deltares is registered with the trade register of the Chamber of Commerce Haaglanden with number 41146461, as Foundation 'Stichting Deltares'.

Deltares

Enabling Delta Life

Date	Our reference	Page
6 July 2012	1002308-000-ZKS-0066	2/2

Contribution to Passaic TOM5 Task 7 - Contaminant F&T modeling: • Contact with Roonin on benthic mixing • Review of Rooni's presentation • Email to Rooni on 1D test column
Contribution to Passaic TOM5 Task 8 – Developing LPR/NB Modeling TOM6 SOW *No work undertaken in this period*
Contribution to Passaic TOM5 Task 9 – Archiving and reporting *No work undertaken in this period*

Activity	Name	week	hours	hourly rate	Costs per activity	status
Contribution to Passaic TOM5 Task 2 - Data Analysis and Monitoring Design Coordination for Use in Numerical Model	Postma	18	0,5	$263	$131,50	
	Postma	19	2,5	$263	$657,50	
	Postma	26	6,0	$263	$1 578,00	
			9,0	*Subtotal*	*$2 367,00*	ongoing
Contribution to Passaic TOM5 Task 3 - System Understanding						
			0,0	*Subtotal*	*$0,00*	ongoing
Contribution to Passaic TOM5 Task 4 - LPR/NB Hydrodynamic modeling						
			0,0	*Subtotal*	*$0,00*	ongoing
Contribution to Passaic TOM5 Task 5 - Sediment Transport modeling	Winterwerp	18	1,0	$263	$263,00	
	Winterwerp	21	6,5	$263	$1 709,50	
	Winterwerp	22	3,0	$263	$789,00	
	Winterwerp	23	5,0	$263	$1 315,00	
	Winterwerp	24	40,0	$263	$10 520,00	
	Winterwerp	25	2,0	$263	$526,00	
	Winterwerp	26	1,0	$263	$263,00	
Material costs (ticket, hotel, DSA-UNDP)					$4 445,70	
			58,5	*Subtotal*	*$19 831,20*	ongoing
Contribution to Passaic TOM5 Task 6 - LPR/NB Organic Carbon Modeling	Postma	18	3,5	$263	$920,50	
	Postma	19	0,5	$263	$131,50	
	Postma	23	2,0	$263	$526,00	
	Postma	25	4,0	$263	$1 052,00	
			10,0	*Subtotal*	*$2 630,00*	ongoing
Contribution to Passaic TOM5 Task 7 - Contaminant F&T modeling	Postma	18	0,5	$263	$131,50	
	Postma	23	2,5	$263	$657,50	
	Postma	24	1,0	$263	$263,00	
	Postma	25	1,0	$263	$263,00	
Material costs (ticket, hotel, DSA-UNDP)					$0,00	
			5,0	*Subtotal*	*$1 315,00*	ongoing
Contribution to Passaic TOM5 Task 8 - Developing LPR/NB Modeling TOM3 SOW, Schedule and Budget						
			0,0	*Subtotal*	*$0,00*	ongoing
Contribution to Passaic TOM5 Task 9 - Archiving and Reporting						
			0,0	*Subtotal*	*$0,00*	ongoing
Grand total					$26 143,20	

Yours sincerely,

Tom Schilperoort
Director Marine and Coastal Systems

Deltares
Enabling Delta Life

Invoice

Moffatt & Nichol
Attn. Accounts Payable
104 West 40th Street 14th Floor
NEW YORK NY 10018
UNITED STATES

Stichting Deltares
P.O. Box 177
2600 MH DELFT
Rotterdamseweg 185
DELFT,The Netherlands
Tel.:+31 88 335 82 73
Fax :+31 88 335 85 82
info@deltares.nl
www.deltares.nl

Invoice date	Invoice number	Our reference	Client number
09-07-2012	192367983	1002308.014	101419

Project Leader
Nolte, A.J.

Client VAT number

Project name: **US, Passaic invoices USD**

Description	Quantity	Price	Amount
Secondment Agreement Deltares.			
Invoice for the services conducted in May and June 2012 of Mr. Postma and Mr. Winterwerp.			26.143,20
	Invoice amount	**USD**	**26.143,20**

Please make our invoice payable to our bankaccount before 09-09-2012
Please mention the invoice number, reference and client number.

Payment terms:	60 days net
Bank Account Number:	15.41.42.557, attn. stichting Deltares
Bank:	Rabobank Zuid-Holland Midden (BICno. RABONL2U)
IBAN-code:	NL11RABO0154142557
VAT number:	NL800097476B01

The engineering services included in this invoice are not subject to Netherlands VAT (Art. 44/59,c EU VAT-directive 2006/112/EC).

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BCD travel

BCD Travel Nederland B.V.
Central Fulfilment Center
Europalaan 400
3526 KS UTRECHT

phone +31 (0)20 5603030
fax +31 (0)20 7188149
e-mail cfc@bcdtravel.nl
Internet www.bcdtravel.nl
Kantoor: 81

Vestigingsadres:
Deltares ZKS
Rotterdamseweg 185
2629 HD Delft

BCD Travel Nederland B.V. - Europalaan 400 - 3526 KS UTRECHT

DELTARES ZKS
T.A.V.: MEVROUW B.M. MEYER
POSTBUS 177
2600 MH DELFT

Factuur

Datum:	31.05.2012
Dossier:	802239741
Bedrijfsnr:	30070084
Factuur nr:	2176945
Order datum:	27.04.2012
Reisagent:	1602NA
Pagina:	1 van 10

Dossier	Passagier	Department	Cost Center	Project number	Employee number	Order reference	NETTO	BTW	BRUTO
802239741	ZIJL/FIRMIJNMR					1203137.005	1006,92	0,00	1006,92
Dossier nbr.	802239741		Vertrekdatum:02.06.2012				1006,92	0,00	1006,92
802258757	OTTOW/BOUKEMR					1205710	718,00	0,00	718,00
Dossier nbr.	802258757		Vertrekdatum:23.07.2012				718,00	0,00	718,00
802258870	PENNEKAMP/JOHANNESMR					1206748	3427,48	0,00	3427,48
Dossier nbr.	802258870		Vertrekdatum:02.06.2012				3427,48	0,00	3427,48
802260118	WINTERWERP/JOHANMR					1002308.018	1435,39	4,76	1440,15
Dossier nbr.	802260118		Vertrekdatum:10.06.2012				1435,39	4,76	1440,15
802261080	VANGILS/JOSEPHUSMR					1000058	306,30	9,85	316,15
Dossier nbr.	802261080		Vertrekdatum:04.07.2012				306,30	9,85	316,15
802262599	MARCHAND/MARCELMR					1206174	1183,00	0,00	1183,00
Dossier nbr.	802262599		Vertrekdatum:08.06.2012				1183,00	0,00	1183,00
802262791	MARCHAND/MARCELMR					1206480	1671,38	0,00	1671,38
Dossier nbr.	802262791		Vertrekdatum:11.06.2012				1671,38	0,00	1671,38
802264129	VANGILS/JOSEPHUSMR					1202910	441,95	0,00	441,95
Dossier nbr.	802264129		Vertrekdatum:16.06.2012				441,95	0,00	441,95
	VANGILS/JOSEPHUSMR					1202910	45,40	8,62	54,02
Dossier nbr.			Vertrekdatum:02.06.2012				45,40	8,62	54,02

BTW in naam en voor rekening van de dienstverlener.

Totaal bedrag: 10259,05

BTW %	Netto bedrag	BTW bedrag
19 %	122,30 EUR	23,23 EUR
6 %	0,00 EUR	0,00 EUR
0 %	10.113,52 EUR	0,00 EUR

Betalingsdetails:

Betalingswijze:	Credit card nr:	Betaald via:	Datum:	
American Express	375390XXXXX1005	Leverancier	30.05.2012	-381,00 EUR
American Express	375390XXXXX1005	BCD	31.05.2012	-22,46 EUR
American Express	375390XXXXX1005	Leverancier	30.05.2012	-100,00 EUR
American Express	375390XXXXX1005	Leverancier	30.05.2012	-381,00 EUR

BCD Travel Nederland B.V.
Company registered in Nieuwegein
KvK 27185876
BTW nr NL808411287B01

Bankrekening ING Bank
IBAN NL11 INGB 0662 1096 00
BIC/SWIFT INGBNL2A
Rekening nr 66.21.09.600

07:16:50 bpaceinv3b_v1.751_120221_PRO_CD.rpt

120 W. 44th Street, New York, NY, 10036, USA, Tel:212-710-7000 Fax:212-704-9680 E-mail: reservations@hotelmela.com

Hotel Mela
877-452-6352
www.hotelmela.com

GUEST FOLIO

Johan Winterwerp
Moffat & Nichol
81 Ladder Hill Rd. North
Weston, CT
06883
US

Re: Winterwerp, Johan
Winterwerp, Johan

ACCOUNT NAME Winterwerp, Johan
ACCOUNT NO. IN 238864 ARRIVAL 06/10/12
FOLIO TYPE Current

Fax :

Prop.	Seq.	Date	Transaction Description	Ref/Comments	Room No.	Q	Amount	TX	S/F
	1	06/10/12	Room	Re: 620	620	1	299.00	N	A
			NYS Room Tax				26.54		
			New York City Tax				17.57		
			Occupancy Tax				2.00		
			Jacob Javitz Center				1.50		
	2	06/11/12	Room	Re: 620	620	1	299.00	N	A
			NYS Room Tax				26.54		
			New York City Tax				17.57		
			Occupancy Tax				2.00		
			Jacob Javitz Center				1.50		
	3	06/12/12	Room	Re: 620	620	1	299.00	N	A
			NYS Room Tax				26.54		
			New York City Tax				17.57		
			Occupancy Tax				2.00		
			Jacob Javitz Center				1.50		
	4	06/13/12	Room	Re: 620	620	1	299.00	N	A
			NYS Room Tax				26.54		
			New York City Tax				17.57		
			Occupancy Tax				2.00		
			Jacob Javitz Center				1.50		
	5	06/14/12	Room	Re: 620	620	1	299.00	N	A
			NYS Room Tax				26.54		
			New York City Tax				17.57		
			Occupancy Tax				2.00		
			Jacob Javitz Center				1.50		
				TOTAL			1,733.05		

This bill is in currency : US Dollars

Print date: 06/15/12

points NY - 375/667 WRD : 080607 1002308.016

FOIA_07123_0005061_0016

120 W. 44th Street, New York, NY, 10036, USA, Tel:212-710-7000 Fax:212-704-9680 E-mail: reservations@hotelmela.com

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Winterwerp, Johan

ACCOUNT NAME Winterwerp, Johan
ACCOUNT NO. IN 238864 ARRIVAL 06/10/12
FOLIO TYPE Current

Fax :

Prop.	Seq.	Date	Transaction Description	Ref/Comments	Room No.	Q	Amount	TX	S/F
				*** TAXES INCL ***					
				Sales Tax 132.70					
				City Tax 87.85					
				Occupancy Tax 10.00					
				Jacob Javitz Center Tax 7.50					

This bill is in currency : US Dollars

Print date: 06/15/12

points

FOIA_07123_0005061_0017

Deltares

Berekening met UNDP tarievenlijst

Naam: J.C. Winterwerp

Personeelsnr: 19645

Projectnummer: 1202308.016

Datum vertrek: 10-6-2012

Datum aankomst: 16-6-2012

1	Maand	juni			
2	van / tot en met	10 t/m 16			
3	aantal nachten	5	0	0	0
				Totaal aantal nachten	5

4	Land	USA			
5	Plaats	New York			
6	Valuta	USD	EUR	EUR	EUR
7	Totaal UNDP	378			
8	% UNDP Hotel	66%	0%	0%	0%
9	UNDP hotel max. per dag	249,48	0	0	0
10	UNDP overige per dag	128,52	0	0	0
11	Koers 1ste van de maand	0,80691	1,00000	1,00000	1,00000

12	UNDP hotel max. totaal (=3x9)	1247,4	0	0	0
13	UNDP overige totaal (=3x10	642,6	0	0	0

14	UNDP hotel max totaal in Euro (=11x12)	1006,54	0,00	0,00	0,00
15	UNDP overige totaal in Euro (=11x13)	518,52	0,00	0,00	0,00

Totaal UNDP hotel max. gehele reis (komt automatisch op voorblad declaratie) € 1 006,54

Totaal UNDP overige gehele reis (komt automatisch op voorblad declaratie) € 518,52

Long Island Rail Road

Station # 9114 · Jamaica

Sold Tickets	Amount
OW Off Peak	$6.25
Total Amount	$6.25
Payment: Cash	$6.25

Long Island Rail Road...
going your way

TSM ID #	11470
Transaction #	663264
Card #	
Date / Time	06/10/12 19:37

Long Island Rail Road

Station # 9012 PennStation

Sold Tickets	Amount
OW Off Peak	$6.25
Total Amount	$6.25
Payment: Cash	$6.25

Long Island Rail Road...
going your way

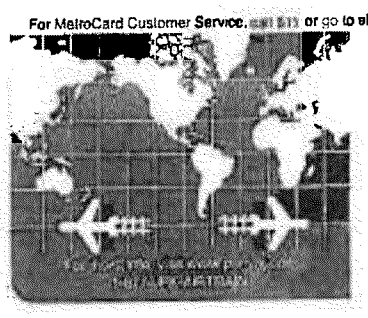
TSM ID #	1211
Transaction #	218852
Card #	
Date / Time	06/15/12 15:27

+ train ticket
Delft - Schiphol airport - Delft
€ 17.80 x 1,39 = $ 24.72

Subject to applicable tariffs and conditions of use T1204

EXPIRES 11/30/13
2354609876 21442859

For MetroCard Customer Service, call 511 or go to eFIX at mta.info



THE PORT AUTHORITY OF NY & NJ

AIRTRAIN JFK

Make the connection

241969976

Valid Thru: 06/28/12

Long Island Rail Road

PennStation 1
Jamaica 3

OW Off Peak

Subject to applicable tariff regulations and conditions of use. See www.mta.info.

Good for 1 ride in either direction for 14 days including date of sale. Not refundable after 30 days from date of sale. Subject to $10 Refund Fee.

218852
1211 06/15/12
241969976

Cash $6.25 15:27

MVM RECEIPT

PANYNJ AIRTRAIN
JFK03 JAMAICA CENTER-1
NEW YORK CITY NY

MVM #: 8011(JFK03 0402)

Fri 15 June 12 15:57

Trans: Sale OK
Payment Mode: Cash

Amount:	$ 5.00
Card Value:	$ 5.00
Change Due:	$ 5.00

Serial #:2354609876
Type: 093
AIRTRAIN FULL FARE

Questions?
Call (212) METROCARD

Total $ 68.24

Deltares

Enabling Delta Life

Moffatt & Nichol
Attn. Mister R. Cañizares
104 West 40th Street, 14th Floor
10018 NEW YORK
USA

Date	Our reference	Number of pages
09 July 2012	1002308-000-ZKS-0067	2
From	**Direct line**	**E-mail**
Arno Nolte	+31 (0)15 28 58 430	arno.nolte@deltares.nl

Subject
Deltares support - May - June 2012 invoicing

Dear Mr Cañizares,

With reference to the sub-contractor agreement between Moffatt & Nichol and Deltares for the Lower Passaic River restoration project (your project reference 6664), please find below our invoice for Deltares support for the months May and June 2012.

Invoicing is done per authorized activity. The 2012 rate for Ms De Jongh is US$ 115, Mr Nolte and Mr Kuijper is US$ 214, for Mr Van Beek US$ 168, and for Mr Verhage US$ 115 per hour. The total for this invoice is US$ 54264,00.

The work undertaken per activity is as detailed in the table below:

Contribution to Passaic TOM5 Task 2 – Data analysis and monitoring design coordination for use in numerical model: • Analysis on 2008-bathymetry correction using all multi-beam surveys (2007, 2008, 2010, 2011-pre and post-Irene) for segments A, B and C (immobile beds), car wrecks and sonar targets • Preliminary analysis of sand waves in upstream part of LPR • Analysis of erosion spots along the LPR (bridges). • Processing of data to derive eroded areas and volumes near bridges using hypsometric curves (eroded area as function of depth). • Start with reporting: Chapter 4 (Section 4.1-4.4; Appendix C on 0.4 foot correction for 2008 bathymetry) • Processing of single beam measurements (1989, 1995, 19996, 1997, 1999, 2001 and 2004) and inclusion in Google Earth version with modified contour depth classes • Processing of 1x1 ft2 2007, 2008 and 2010 bathymetries (on-going)
Contribution to Passaic TOM5 Task 3 – System Understanding: • Secretarial support (i.e. travel arrangements) and project management (i.e. invoicing)
Contribution to Passaic TOM5 Task 5 – Sediment Transport Modeling • *No work undertaken in this period*
Contribution to Passaic TOM5 Task 6 – LPR/NB Organic Carbon Modeling • Checking the sediment layer administration in the alternative carbon approach

Deltares

Enabling Delta Life

Date	Our reference	Page
11 July 2012	1002308-000-ZKS-0067	2/2

against the ST-SWEM results

Contribution to Passaic TOM5 Task 7 - Contaminant F&T modeling

- *No work undertaken in this period*

Activity	Name	week	hours	hourly rate	Costs per activity	status
Contribution to Passaic TOM5 Task 2 - Data Analysis and Monitoring Design Coordination for Use in Numerical Model	Kuijper	18	8,0	$214	$1 712,00	
	Kuijper	19	28,5	$214	$6 099,00	
	Kuijper	20	19,0	$214	$4 066,00	
	Kuijper	21	24,0	$214	$5 136,00	
	Kuijper	22	23,0	$214	$4 922,00	
	Kuijper	23	27,0	$214	$5 778,00	
	Kuijper	24	6,0	$214	$1 284,00	
	Kuijper	25	6,0	$214	$1 284,00	
	Verhage	18	24,5	$115	$2 817,50	
	Verhage	19	32,0	$115	$3 680,00	
	Verhage	20	27,5	$115	$3 162,50	
	Verhage	21	16,5	$115	$1 897,50	
	Verhage	22	29,0	$115	$3 335,00	
	Verhage	23	35,5	$115	$4 082,50	
	Verhage	26	13,0	$115	$1 495,00	
			319,5	*Subtotal*	*$50 751,00*	ongoing
Contribution to Passaic TOM5 Task 3 - System Understanding	Nolte	19	1,0	$214	$214,00	
	Nolte	26	0,5	$214	$107,00	
			1,5	*Subtotal*	*$321,00*	ongoing
Contribution to Passaic TOM5 Task 5 - Sediment Transport modeling				$214	$0,00	
				$214	$0,00	
			0,0	*Subtotal*	*$0,00*	ongoing
Contribution to Passaic TOM5 Task 6 - LPR/NB Organic Carbon Modeling	Beek	18	4	$168	$672,00	
	Beek	23	2,0	$168	$336,00	
	Beek	24	4,0	$168	$672,00	
	Beek	25	9,0	$168	$1 512,00	
			19,0	*Subtotal*	*$3 192,00*	ongoing
Contribution to Passaic TOM5 Task 7 - Contaminant F&T modeling	Beek			$165	$0,00	
			0,0	*Subtotal*	*$0,00*	ongoing
Grand total					$54 264,00	

Yours sincerely,

Tom Schilperoort
Director Marine and Coastal Systems

Deltares
Enabling Delta Life

Invoice

Moffatt & Nichol
Attn. Accounts Payable
104 West 40th Street 14th Floor
NEW YORK NY 10018
UNITED STATES

Stichting Deltares
P.O. Box 177
2600 MH DELFT
Rotterdamseweg 185
DELFT,The Netherlands
Tel.:+31 88 335 82 73
Fax :+31 88 335 85 82
info@deltares.nl
www.deltares.nl

Invoice date	Invoice number	Our reference	Client number
09-07-2012	192367987	1002308.014	101419

Project Leader
Nolte, A.J.

Client VAT number

Project name: **US, Passaic invoices USD**

Description	Quantity	Price	Amount
Project: Lower Passaic River/Newark Bay Modelling			
Deltares activities/support in May and June 2012.			54.264,00
	Invoice amount	**USD**	**54.264,00**

Please make our invoice payable to our bankaccount before 09-09-2012
Please mention the invoice number, reference and client number.

Payment terms:	60 days net
Bank Account Number:	15.41.42.557, attn. stichting Deltares
Bank:	Rabobank Zuid-Holland Midden (BICno. RABONL2U)
IBAN-code:	NL11RABO0154142557
VAT number:	NL800097476B01

The engineering services included in this invoice are not subject to Netherlands VAT (Art. 44/59,c EU VAT-directive 2006/112/EC).

FOIA_07123_0005061_0022